11	Di Larada EDT Burcha	eina			Supplier Contro	ol No.:	19-006
): Ms. Noreer	Bianca Lanado - FDT Purcha	aniy				Date:	2/18/2019
						Supplier:	SPPI
					6		PMC
					P	20000000	Sychoco ,
Support for the	RoHS				L	Person in charge	1. SILVAN
	nge notification 🕸 🗷	通知音)			E	Approval	Oteut ab (O
Part number	KD04072-Y290	Part name	e S	IDE GUIDE L1			/
	G960		Presence	of attached datum and sample		Appendi	g - unappending
Model  Content of cha							
Man Man	(Worker's change)	CHANGE O	F TRIA	L IN-CHARGE			promise pro-
	(Equipment change)	FROM AB N	MOULD	INJECT TO SPPI INJE	ÇT		
	(Division of material change)						
m su	innort for the RoHS						<del></del>
(C	ertificate with a data must be att	ached) [ Cr(VI) , Co	d, Hg, F	b, PBB, PBDE 🕽			
	aterial change						
□ Er	nd of life (EOL)						
☐ Method (	(Work method change)						
☐ Others	( )						
Change reas	on]	Mold was fabricated	in AB	MOULD PHILS., transfe	rred to SPPI fo	or mass producti	on.
					I		chasing Section
						D Control Number	PUR-EX-19-411-
					T MA COMMERCIAL SALES	Person in charge	N.B. LANDED
						Approval	M.A. CAMN-S
[Change t	ime]		Ev	aluation result before har	d	Appen	ding · unappending
					FDTP QC Co	ontrol No.	
LDII LVaida	tion and Result					Date:	
Parting	FDTP QCI/QA	Section	on	FDTP PE		Section	FTEC PE/QA
Section		Person in	charge			Person in charg	е
Person in charge					-		
Approval		Appro	val			Approval	
4 14 6	Change answer	!					
	on] Judgment : 4 M Content	of change request					
Conclusio	on) Juagment: 4 M Content	☐ Acceptable		□ Not acceptable			
		- Accoptable					
Matters in	n request]						
							***************************************
						=	WW 2011-01 - 4-20-2
							4-1
							***************************************
[Opinion	and evaluation result]						
			-,,,,,				
							<del> </del>

OFTEC)INSPECTION SE O O O	C,MANAGER	Part N 回春				Rev. 版数		Supplier 依頼元		
		Part ns 品名						Attached de メーカテータ		B No り or 無し
		Die classifica 区分	New DIE MAKE 新規 DIE MAKE	or Revisio 改能		RE Others その他(	( )	Molding condition成形象件具		
TRY No.	Inspection data 檢查年月日	judgement	Defective pa 不良箇所	rt	F	Remarks 備考		Inspecter 検査担当	Checked 調査	Approved 承肥
		GOOD 合格	Dimension 寸法不良							
1at trial 第1回トライ			Appearance 外號不良	locati Min						
		NO GOOD 不合格	others その他							
		GOOD 合格	Dimension 寸法不良							
2nd trial 第2回トライ			Appearance 外観不良	locati						
		NO GOOD 不合格	others その他							
		GOOD 合格	Dimension 寸法不良							
3rd trial 第3回トライ			Appearance 外観不良	locati 1857						
		NO GOOD 不合格	others その他							
		GOOD 合格	Dimension 寸法不良							
4th trial 第4回トライ			Appearance 外観不良	locati						
		NO GOOD 不合格	others その他							

	Article	記事
Unit Name 機種名		measurement instrument 測定權
	1. Digital calipers デジタルノギス	7. Block gauge ブロックゲージ
	2. Digital Micrometer デジタルマイクロメーター	8. Protractor プロトラクター
P.O. Number 型紀工製器	3. Digital height gauge デジタルハイトゲージ	9. Projector 工具顕微鏡
	4. Pin gauge ピンゲージ	10. CMM 三次元期定額
	5. Sorew gauge ネジゲージ	11. Gear rolling tester 噛合い試験機
	6. R gauge Rゲージ	12. Laser scan micrometer レーザーマイクロメーター

# Sanyo Plastic Philippines, Inc. PRODUCT EVALUATION SHEET

OPERATIONS DIVISION
QUALITY CONTROL DEPARTMENT

Part Name:

SIDE GUIDE L1

Part Number:

Model:

KD04072-Y290

Material Name: ABS TORAY 100G10 BLACK

Ink Name:

N/A

Trial Date:

12-Feb-2019

Evaluation Date:

13-Feb-2019

PTS # / Sample #: 19-0014-FDT

Injection

Printing

☐ Shafting

MARK	COORDIN	Standard	Tolerance	Sam	ple No./Cavity	No.	IMTE	JUDGEMENT	REMARKS
MAKK	ATES	Staridard	Totalica	1	2	3	USED	JODGEMENT	REPIARRS
GO	2/D	3.00	±0.1	3.00	3.00	3.00			
STOP				3.09	3.09	3.09	С	ок –	
GO	3/D	Ø4.2	+0.1/-0	4.21	4.21	4.21	_		
STOP				4.27	4.27	4,27	С	ок –	
	3/E,F	99.50	±0.7	99,45	99.43	99.50	Е	OK	
	4/E	4.40	+0/-0.2	4.22	4.22	4.21	Е	OK	
	8/E	115.50	±0.7	115.57	115.54	115.62	Е	OK	
	9/G	39.10	±0.5	38.90-39.14	38.89-39.23	38.89-39.11	Е	OK	
GO	8/B	3.10	+0.1/-0	3.14	3.14	3.14		04	
STOP				3.17	3.17	3.17	С	OK -	
	10/E	115.50	±0.7	115.55	115.51	115.60	Ε	OK	
ROOT	10/D	11.60	+0.35/-0.50	11.62-11.75	11.81-11.89	11.78-11.87	Е	ОК	
TIP				11.55-11.59	11.75-11.83	11.69-11.72	E	UK -	
GO	11/D	3-ø4.00	+0.1/-0	4.00	4.00	4.00			
STOP				4.11	4.11	4.11	1		
GO				4.00	4.00	4.00	c	ок	WITH HINSEI +0.20
STOP				4.11	4.11	4.11		OK	WITH HINSEL TO.20
GO				4.00	4.00	4.00	1		
STOP				4.11	4.11	4.11			
Α	11/D	6.30	±0.1	6.29	6.27	6.25	Е	ок –	
В				6.38	6.38	6.37	-	OK	
GO	12/D	6.20	±0.1	6.13	6.13	6.13	GB	ок –	
STOP				6.23	6.23	6.23	GB	OK _	
	11,12/G	42.50	±0.5	42.43-42.57	42.44-42.68	42.51-42.69	Е	OK	
GO	11/D	3-ø4.00	+0.1/-0	4.00	4.00	4.00			
STOP				4.07	4.07	4.07			
GO				4.00	4.00	4.00	c	ок	WITH HINSEI +0.20
STOP	Ï			4.07	4.07	4.07			WITH HINGE TO.20
GO				4.00	4.00	4.00			
STOP				4.07	4.07	4.07			
	15/E,F	99.50	±0.7	99.50	99.47	99.56	Ę	OK	
GO	2/D	3.00	±0.1	3.00	3.00	3.00	С	ок –	
STOP				3.09	3.09	3.09		OK	

all a					
Product	Trial	Schedule	versus	Product	Drawing

Part Number

Part Name/Revision Number

Material Name

Revision number in PO-

Revision number in DRAWING-

09

Revision number in actual-

Remarks:

09

	CALIPER	A	P.PROJECTOR	F
	CMM	В	R.TESTER	G
IMTE	PIN GAUGE	С	PUSH/PULL	н
	MICROMETER	D	GAUGE	п
	H.GAUGE	E	OTHER/VMM	I

**SAMPLE FOR APPROVAL-T1 IN SPPI** TRANSFERRED MOULD FROM JZT (CHINA)

QC Department Injection Development **Customer Approval** Overall Judgement Noted Inspected Checked Checked **FOR APPROVAL** Ms. Doc Justo

# Sanyo Plastic Philippines, Inc. PRODUCT EVALUATION SHEET

OPERATIONS DIVISION QUALITY CONTROL DEPARTMENT

Part Name: Part Number: SIDE GUIDE L1

Model:

Material Name: ABS TORAY 100G10 BLACK

KD04072-Y290

Ink Name:

N/A

Trial Date:

12-Feb-2019

**Evaluation Date:** 

13-Feb-2019

PTS # / Sample #: 19-0014-FDT

Injection		Printing	Shafting
-----------	--	----------	----------

ARK	COORDIN	Standard	Tolerance -	Sam	ple No./Cavity	No.	IMTE	JUDGEMENT	REMARKS	
THINK	ATES	Staridard	rolerance	1	2	3	USED	JODGENERI		
GO	3/D	Ø4.2	+0.1/-0	4.23	4.23	4.23	7	T T		
	3/0	107.2	70.1/-0				_ c	ОК —		
STOP				4.27	4.27	4.27	-			
					1		1			
					<del> </del>		-			
					-					
			<b></b>		-					
					ļ					
							]			
_	-						1			
					<b></b>		1			

Part Name/Revision Number

Material Name

Revision number in DRAWING-

09

Revision number in actual-

Remarks:

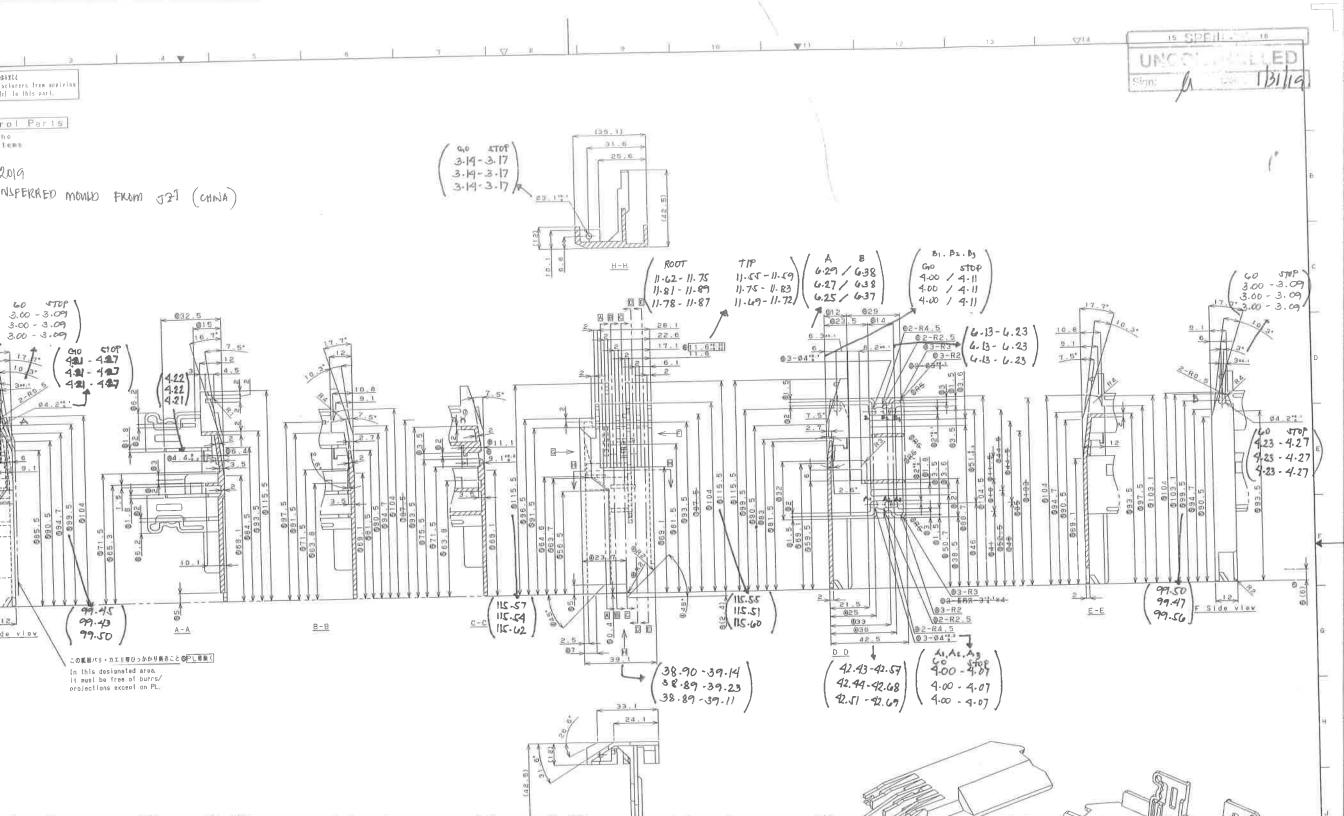
09

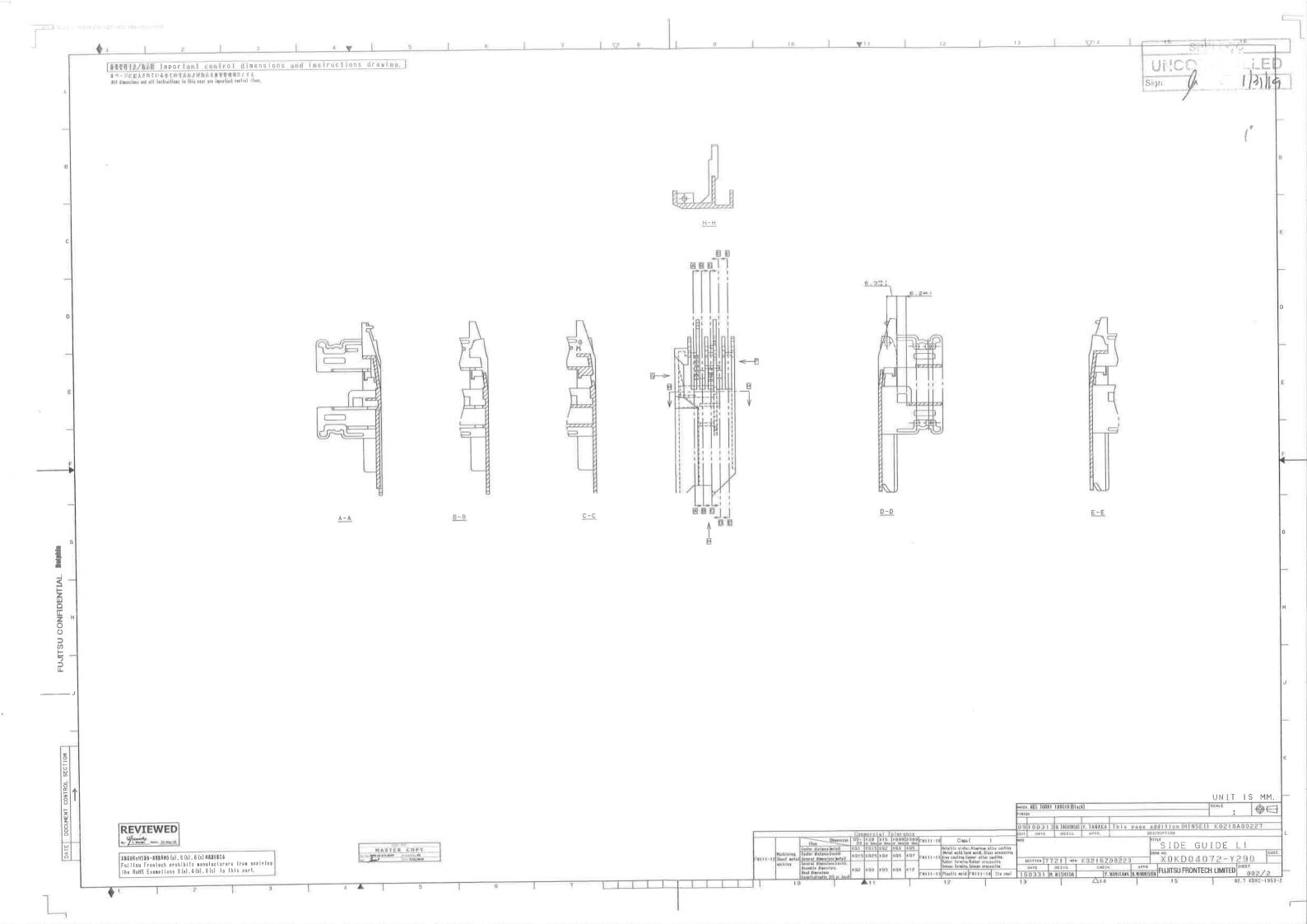
	CALIPER	Α	P.PROJECTOR	F
	CMM	В	R.TESTER	G
IMTE	PIN GAUGE	С	PUSH/PULL	ш
	MICROMETER	D	GAUGE	Н
	H.GAUGE	E	OTHER	1

SAMPLE FOR APPROVAL-T1 IN SPPI TRANSFERRED MOULD FROM JZT (CHINA)

Overall Juda	omont.	Injection	Development	QC	Department	Customer Approval
Overall Judg	jernent	Inspected	Ohecked	Checked	/ Noted	Customer Approval
FOR APPR	OVAL	Ms. J. Gonzalvo	Mr. A Punongbayan	Ms E. Sumague	Ms. D de Justo	· · · · · · · · · · · · · · · · · · ·

DMO DEMA FOTP-S09-44-4 SIDE GUIDE I KD04072-Y29 FDTP 1  J. ARANGURE 12-Feb-19 J. GALICIA  SDITION E S0 PEN VELOCITY LIMIT 25 WD 30 ST 20 GSSE	I CONTROL N I PART NAME PART NIME COSTUMER CAUTT ANA WEIGHT PE SET UP DA SET UP DA NOTED APPROVED OPEN CLOS	O.  DUNT R PIECE PE: O HY  CLAMP C  LAMPING FOR	ONDITION	SET UP	CONTROL M. PART NAME PART NUMBE COSTOMER CAPTIT AMO- WEIGHT PER SET UP BY: SET UP DATE EVALUATED	ER UNT	CAPACI	Y : 100 I	CONTROL NO PART NAME PART NUMBE CUSTOMER CAVITT AMOR	ER		44
SIDE GUIDE 1 KD04072-V29 FDTP 1 J. ARANGURE 12-Feb-19 J. GALICIA  ADITION E 50 PPEN VELOCITY LIMIT 25 MD 30 77 20	I PART NAME PART NUMB COSTOMER CASTIT AND WEIGHT PE SET UP BY SET UP DA' EYALUATEL NOTED APPLIED C OPEN CLOX POS LIMIT	ER  DUNT R PIECE FE: D BY: CLAMP C  LAMPING FOR			PART NAME PART NUMBE CUSTOMER CAVITY AMO- WEIGHT PER SET UP BY: SET UP DATE EVALUATED	ER UNT			PART NAME PART NUMBE CUSTOMER	ER		
KD04072-Y29 FDTP 1  J. ARANGURE 12-Feb-19 J. GALICIA  RDITION E 50 PEN VELOCITY LIMIT 25 MD 30 FT 20	PART NUME COSTOMER COSTOMER COSTOMER COSTOMER SET UP BY SET UP DA' EVALUATED NOTED APPROVED: APPLIED CO OPEN CLOS LIMIT	DUNT R PIECE FE: O HY: CLAMP C LAMPING FOL			PART NUMBER CUSTOMER CAPITY AMO- WEIGHT PER SET UP BY: SET UP DATE EVALUATED	UNT			PART NUMBE CUSTOMER			
J. ARANGURE 12-Feb-19 J. GALICIA  NOTION E 50  PEN  VELOCITY  VELOCITY  VELOCITY  25  VID 30  VIT 20	COSTOMER CAPITY AND WEIGHT PE SET UP BY SET UP DA' EVALUATED APPROVED: APPLIED CO OPEN CLOX POS LIMIT	DUMT R PIECE FE: D BY: CLAMP C LAMPING FOR			CAPITY AMO- WEIGHT PER SET UP BY: SET UP DATE EVALUATED				CUSTOMER			
J. ARANGURE 12-Feb-19 J. GALICIA  RIDITION E 50 PPEN VELOCITY LIMIT 25 VID 30 VIT 20	WEIGHT PE  SET UP BY SET UP DA' EVALUATEL NOTED APPLIED C OPEN CLOX POS LIMIT	R PIECE  FE:  O BY:  CLAMP C  LAMPING FOR  IK SPEED			WEIGHT PER SET UP BY: SET UP DATE EVALUATED				CAVITT AMO	UNT		
12-Feb-19 J. GALICIA  RIDITION E 50  PEN VELOCITY  LIMIT 25  VID 30  VIT 20	N SET UP BY SET UP DA' EVALUATED NOTED APPROVED  APPLIED C OPEN CLOS  POS LIMIT	CLAMP C LAMPING FOR SPEED			SET UP BY: SET UP DATE EVALUATED	PIECE	-					
12-Feb-19 J. GALICIA  RIDITION E 50  PEN VELOCITY  LIMIT 25  VID 30  VIT 20	SET UP DATE EVALUATED NOTED APPROVED: APPLIED CO OPEN CLOS POS LIMIT	CLAMP C LAMPING FOR IK SPEED			SET UP DATE				WEIGHT PER	PIECE	-	
SOURCE   S	APPLIED CO OPEN: CLOS  POS LIMIT	CLAMP C LAMPING FOR IK SPEED			STATE OF THE PARTY	E:			SET UP DATE	E:		. #
PEN VELOCITY  LIMIT 25  ND 30  NT 20	APPROVED: APPLIED COPEN: CLOS POS	LAMPING FOR IK SPEED			BATTOWN STATE	7			EVALUATED.			
PEN VELOCITY  LIMIT 25  ND 30  NT 20	APPLIED CO	LAMPING FOR IK SPEED			NOTED:				NOTED:			
PEN VELOCITY  LIMIT 25  ND 30  NT 20	OPEN CLOS POS	LAMPING FOR IK SPEED			APPROVED:	C11 A DATE C	CONDITION		APPROVED:			
VELOCITY  LIMIT 25  ND 310  ST 20	OPEN CLOS POS	K SPEED	NCD.		APPLIED CL	AMPING FOR			ABBITICA CT	AMPING FO	CONDITION	
VELOCITY  LIMIT 25  VD 30  ST 20	POS LIMIT				OPEN CLOSE		ICE		OPEN CLOSE		Mr. E	
IJMIT 25 ND 30 ST 20	LUMST		O OPEN		NO.		O OPEN		See and See See		D OPEN	
VD 30 T 20		ITION	VELC	DCITY	POST	TION	VELC	OCITY	POST	TION	VEL	OCITY
7 20	2ND		VLIMIT'		LIMIT		VLIMIT		LHMIT		VLIMIT	
	IST		2ND IST		2ND IST		IST		2ND IST		2ND 1ST	
		MOLD	CLOSE		100	MOLD	CLOSE		1411	MOLE	CLOSE	
	CHANGE PA				CHANGE PAR	ИG			CHANGE PAR	UG		
VELOC'ITY		THON		XTTY	POST			CITY	POSE	TION		OCTIY
T 0 3RD	No. of the Contract of the Con		187		157		787		IST		187	
ND 25 4TH CLAMP 15	0 2ND MLD.CLMP		VCLAMP		2ND MLD.CLMP		PCLAMP		2ND MLD.CLMP		VCLAMP	
	POS.		LW PRES		POS.		LW PRES		POS.		LW PRES	
TTLING		EJECTOR	SETTLING			EJECTOR	SETTLING			EJECTOR		
ORWARD EJEC		RETRACT	FORWARD	EJECT		RETRACT	FORWARD)	EJECT		RETRACT'	FORWARD	EJECT
IST			157		BOS		157		nor		IST	
	The second secon				PCSS.							<del></del>
30	PRES				PRES.				PRES			
MER CONT.	MODE		Section that the second section is the		MODE		TIMER CONT.		MODE		TIMER CONT	
	EJ.COUNT		EJ. KEEP		EJ.COUNT		EJ. KEEP		EJ.COUNT		EJ. KEEP	
											RET. KEEP	
ONDITION U	LACTOR I				UELAI	THE RESERVE OF THE PERSON NAMED IN	And the second second			INJECTION		
ACKING.												
20	Company of the Compan					YEL.			HOLD PRESS	The second second second second second		
3 pprocessor			2020 4476	erme.	Andrew Commencer Commencer		200	ent fore-				
	-	ndl):		styck.			and the second second second	N.GE		AE.		SURE
TO NOT THE PARTY OF	3110		3RD	77.00 - 00	The second second		3RD				A 17-1-4-1	
			2ND		2ND		2ND		2ND		2ND	
7 650	187		187		IST		157		IST		IST	
·II.I.ING	Edit Larva.	INJECTIOI	N FILLING		ENI TRUE	INJECTION	V FILLING		EU L WO CO	INJECTIO	N' FILLING	
1200		/RE				RE			Artist Control of the Control	RE		
ELOCITY	POSITION		YELOCTTY .		POSITION		PELOCITY	+	POSITION	11	VELOCITY	
н 70	57H		5TH		STH		37H		STH		5TH	
	1000000		1000		1.040.00		444		N 400 N		4TH	
(D) 1,20	2ND		2ND		2ND >		and the I had a second				BUT S 2000	
7	IST		157		IST		157		187		157	
LLING	COOLING		EILLIMI		COOLING		E11.1.1887		COOLING		FILLANT	
	The strained in the course of the course		Country of a street Spinish Spinish Spinish		CONTRACTOR OF THE PROPERTY OF				HOLD		OPERATION	
			DOSEMODE	-	V-P SWITCH		DOSE MODE		V-P SWITCH		DOSE MODE	
(ELARATING				Wi	PERSONAL PROPERTY AND ADDRESS OF THE			VG	7.16	KS.		NG
TYERN			PATTERN		CHERNTION		PATTERN		OPERATION		PATTERN	
ETTING												
	nda Proc			2001	PATE			1 90	pae			
	Walt Co	IST IST	2ND	PIAST	100	IST	2ND	mm/s PLAST	1.03	IST	VEL. 2ND	PIAST
35 37	POS				POS				POS			
80 70	BCK PRES				BCK PRES				DCK PRES			
70 60	REY				and the second s				REV			
AFTER	pentar.	PULL BAC	K - AFTER		Leannel A	PULL BAC	K - AFTER		eritatici i	PULL BAC	K - AFTER	
	n/s POS			mm/e	POS			mm/s	POS			ma
FF	DELAY			1890,939	DELAY			17,00,000	DELAY			
BS TORAY	and the second property of the second	ME			Annual State of the Control of the C	ME			AN HARMAN PROPERTY	ME		
00 G10	COLOR				SOLVEN SETTEMBER SET				CONTROL COLUMN TO A			
LACK	COLOR	BARRET	. TEMP.		COLOR	BARREL	TEMP.		COLOR	BARREI	TEMP.	
230	71				TI	proposed triang	and the second second		71		74	
225	72		75		72		75		72		75	
Company of the Compan	73	MOLD TOTAL	D CENTRAL		77	MOLD COL	D CCanasic		73	MOLDON	D. COMPANY	
	CONTRALLE		P. SETTING		CONTROLLER		36111NG		CONTROLLER		r. actiing	
CAPTTY	CORE		CAVITY		CORE		CAVITY		CORE		CAPTTY	
65	SET		SET		SET		SET		SET		SET	
TUAL	ACTUAL		ACTUAL		ACTUAL		SANARA NA PARA PARA PARA PARA PARA PARA P		ACTUAL.		ACTUAL	
rroning		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				22 Mill 22 22 24 24 25	Constitution Party in			AUTOMOBILE OF	Contract of the latest and the lates	
THE RESIDENCE TO THE PERSON OF				_								
8.24	REMARKS		- pm a-/3 3 (P)	Q	REMARKS				REMARKS		1177	
V TIME AND BOOKION												
	PRES   15	TTLING  ORWARD  ORWARD  IST  0 60 POS.  0 15 VEL.  30 PRES. MER CONT. MODE  KEEP 0.8 ELCOUNT  IT KEEP 0 EL START  VEL KEEP 0 DELAY  NOTTON  ICKING  ORWARD  IT KEEP 0 EL START  VEL KEEP 0 DELAY  NOTTON  ICKING  PRESSURE TO  HOLD PRESS  3 NO. OF STAC  PRESSURE TO  HOLD PRESS  IND.  OF STAC  PRESSURE TO  HOLD PRESS  IND.  OF STAC  PRESSURE TO  HOLD PRESS  IND.  OF STAC  PRESSURE TO  INTERVAL  INTERVAL  SELOCITY POSITION  HI 100 STH  HI 1	TTLING  ORWARD  IST  O  O  O  O  O  O  O  O  O  O  O  O  O	TPLING  CORWARD  O 0 15  PRES  MER CONT.  KEEP 0,8  EJECTOR SETTLING  O 60 POS.  O 15  PRES.  MER CONT.  KEEP 0,8  EJECOUNT INTERCONT  KEEP 1,8  EJECOUNT IN			PRESS   15   POS	PPES	PIPES	PRESS   S	PRESS   15   POS	PRESS   S





# SPP| Sanyo Plastic Philippines, Inc.

CERTIFICATE FOR MATERI	AL USED	
D.R./P.O. No. :	QUANTITY:	6
PART NUMBER : KD04072-Y290		
PART NAME: SIDE GUIDE L1		
IATERIAL USED		
MATERIAL GENERIC NAME :	PC	
MATERIAL DESIGNATION :	NX86K-1	5
MANUFACTURE OF MATERIAL	TORAY INDUSTR	RIES INC.
UL94 FLAME CLASS	94V-0	
UL FILE No.:	E41797	

Note: PART NAME can be written as per the drawing
MATERIAL USED shall be stated as per the "UL Online Certification Directory"

Revision 03

9/14/2015



Innovation by Chemistry

20 featte No

2000-11-01 2011-06-23

TPM/TC/PLS/00 TPM/006/EN/01

# MATERIAL SAFETY DATA SHEET

Chemical Product and Company Identification

1.1 Product name

TOYOLAC Glass Fiber Reinforced ABS Resin (TOYOLAC 100G)

1.2 Recommended use of the chemical and restrictions on use

Recommended Use : For household appliances, electronic materials and industrial materials

Use Restriction : Do not use for an Internal implantation

For use of the product for medical purpose or food containers, please kindly contact us in advance on the specific usage.

1.3 Supplier's detail

Name of Supplier Toray Plastics (Malaysia) 6dn. Bhd.

2628 MK.1, SPT., Lorong Perusahaan 4, Prai Free Industrial Zone, 13600 Prai, Peneng, Malaysia.

Telephone No. +60-4-3988-088

+60-4-3908-975, +60-4-3977-264 Fax No.

Department Sales & Marketing Department

: General Manager Manager

Technical

: Technology Centre Department

: Technology Centre Manager

1.4 Emergency phone number

+80-4-3988-088

Hazards Identification

2.1 GHS classification

Health Hazards:

Not classified Acute toxicity (Oral)

Acute toxicity (Dermal) Classification not possible Classification not possible Acute toxicity (inhelation)

Sidn corrosion / irritation Classification not possible Classification not possible Serious eye damage / eye initiation

Respiratory sensitization Classification not possible

Skin sensitization Classification not possible Not classified Germ cell mutagenicity Not classified

Carcinogenicity Reproductive toxicity Not classified

Specific terget organ / systemic toxicity (Single exposure) Not classified Specific target organ / systemic toxicity (Repeated exposure) Not classified

Classification not possible Aspiration hezerds

Environmental Hazards:

Aquatic environmental hazerds Not classified : Not classified

Chronic environmental hazards

2.2 Other hazards which are not covered by GHS

This product may release small amount of volatile gases which may cause initiation to eyes, nose and throat. Use adequate local exhaust ventilation during drying and moiding of the product. Sweep up and dispose any splited product to eliminate slipping hazards. Do not pile up the product too high to avoid any injuries caused by falling of the product.

1/6



Document No. MSDS No In sue No

TPM/TC/PL8/001

# MATERIAL SAFETY DATA SHEET

# 3. Composition / Information on Ingredients

Substance / Mixture Mixture

Mixture of Acrylonitrile-Butadiene-Styrene Copolymers and Additives Chemical Name

Glass Fiber Reinforced ABS Resin Synonyms

	Common riversinal trame	Chendral formula	No.	No.	No.	TSCA	Composition
1	Acrylonkräe-Butadiene-Styrene Copolywer (or Mixture of A, B and / or C)	-	Regd.	Regd.	Existing	Regd.	\$0% or more
Α	Acrylonitrile-Butsdiene-Styrena Copolymer	-{(C8H8)k-(C3H3N)  C4H6)m)n-	9003-56-9	6-176	Exhibing	Regd	-
В	Acrylonitrile-Styrene Copolymer	-[(C8H8)k-(C3H3N)I)m-	9003-54-7	6-126	Exhling	Regd.	
С	Copolymer of Acrylonitrie_Styrens and other component (other component: 0-10%)	=	Regd	Regd	Existing	Regd	2
2	Glass Piber	BiO2.AI2O3.(Ca,Mg)O.B2O8.(Na,K)2O	65967-17-3	Regd	070)	Regd.	36% or less
3	Additives	-	Regd	Regd	Existing	Regd.	5% or less
4	Styrme (Imputities which contribute to QHS classification)	CBHB	100-42-B	3-4	-	-	0,08-0.2%

#### First-Ald Measures

#### 4.1 Inhalation

\$45-in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S63-In case of accident by inhalation; remove casualty to fresh air and keep at test.

it is not likely for the reain pellets to be inhaled. In case of inhalation of gases and furnes from melting resin, remove casualty to fresh eir. If the casually has difficulties in breathing or coughing, seek medical assistence immediately.

#### 4.2 Skin contact

\$45-in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash ekin thoroughly with water and mild scap. In case of contact with melting resin, cool rapidly with water and seek medical assistance immediately. In case of contact with furne condensate from meiting realn, wash thoroughly the affected area with water and soap. Seek medical assistance immediately if imitation develops.

### 4.3 Eve contact

Gently rings the affected eyes with clean water for at least 15 minutes. If the casualty wears contact lenses, have them removed and continue rineing. Avoid the casualty from rubbing eyes. Transport casualty to the nearest medical facilities for treatment as soon as possible.

#### 4.4 Ingestion

\$45-in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

4.5 Protective measures for a first-aid person

Weer protective gloves when removing melting polymer or high temperature polymer.

# Fire-Fighting Measures

### 5.1 Extinguishing media

843-in case of fire, use water mist, water jet, foam, dry powder or carbon dioxide.

2/8





# **MATERIAL SAFETY DATA SHEET**

Physical and Chemical Properties · Pellet shaped solld Appearance Light vellow Color Odp None N/A Boiling point Boiling range (Mixture) Melting point This product softens gradually over a broad temperature range (130-150°C) Decomposition temperature Flash point N/A Ignition temperature About 405°C Explosion limit (Upper) 60g/m3 (particle size < 0,2mm) Explosion limit (Lower) Relative density 1.10-1.45 Vapor pressure N/A N/A Vapor density Solubility Insoluble in water. Partly soluble in organic solvent.

#### 10. Stability and Reactivity

#### 10.1 Stability

This product is considered a stable meterial under normal and anticipated storage and handling conditions.

#### 10.2 Possibility of hazardous reactions

This product is considered a stable material under normal and anticipated storage and handling conditions.

# 10.3 Conditions to avoid

Direct sunlight, fire, sources of heat etc.

Octanol / water partition coefficient

# 10.4 Incompatible materials

None

#### 10.5 Decomposition products

Black smoke, carbon monoxide, carbon dioxide, nitrogen oxides and atc maybe generated in the case combustion of this product.

#### 11. Toxicological Information

Acute toxicity Not classified Skin corrosion / initation Classification not possible. (N/A) Classification not possible. (N/A) Serious eye damage / eye irritation Classification not possible. (N/A) Respiratory or skin sensitization Not classified Germ cell mutagenicity Carcinogenic effects Not classified Not classified Toxicity for reproduction Specific terget organ / systemic toxicity (Single exposure) Not classified Specific target organ / systemic toxicity (Repeated exposure) Not classified Classification not possible. (N/A)

This product is classified into the above classifications based on judgment theory of a mixture

5/6

FOR EXTERNAL USE ONLY



Document No MSDS No Is sue No Is sued Revised

TPM/006/EN/01 2 0 2000-11-01

TPM/TC/PL6/001

# MATERIAL SAFETY DATA SHEET

# 12. Ecological Information

Ecological toxicity
Biodegradability
Classification not possible (NA)
Classification not possible (NA)
Mobility in soil
Classification not possible (NA)

#### Other adverse effects:

Hazardous to the aquatic environment (Acute) (# Not classified Hazardous to the aquatic environment (Chronic) (# Not classified

This product is classified into the above classifications based on judgment theory of a mixture

#### 13. Disposal Consideration

Dump the waste matters following faw, rules and regulations.

#### 14. Transport Information

UN No. / Packaging group : N/A Marine pollutant : N/A Regulation in Japan : N/A

Specific safety measures and conditions on transport:

Avoid wetting or rough handling so that the packaging will not be damaged. In case the bags are damaged and the pellets are scattered, pay attention so that no one will slip and fall. All of the spilled product should be collected immediately and placed in proper labeled container for dispose or recovery. Take precautionary measures against static discharges when using pneumatic transportation.

# 15. Regulatory Information

Other regulatory information:

We are not able to check up the regulatory information in regard to the substances in your country or region. Therefore, we request this matter would be filled by your responsibility. Regulatory information with regard to this product in your country or in your region should be exemined by your own responsibility. Ensure this product in compliance with federal requirements and ensure conformity to local regulations.

# 16. Other Information / References

#### Other information:

The information relates to this specific material. It may not be valid for this material, it used in combination with any other materials or in any process. It is the user's responsibility to autish himself as to the usthability and completeness of this information for his own particular use. The information cherein is given in good faith, but no warranty, express or implied, is made. Please consult us for further information. To the best of our knowledge, the information contained herein is accurate. However, we assume any liability violations over for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of user. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. This information contained in this data sheet represents the best information currently available to us. However, no warrantly is made with respect to its completeness and we assume no liability excelling from its use. It is advised to make their won tests to determine the safety and suitability of each such product or combination for their own purposes.

6/6





No. CRSSA/26768-1/16

Date: 04/01/2017

CRS Ref. CRSSA/16/3013/Toray

Page: 1 of 5

TORAY PLASTICS (MALAYSIA) SDN BHD 2628, MK 1, SPT., LORONG PERUSAHAAN 4 **PRAIFREE INDUSTRIAL ZONE** 13600 PRAI, PENANG, MALAYSIA

The following merchandise was (were) submitted and identified by the client as:

Sample Description

TOYOLACTM ABSG 100G-10

TOYOLACTM ABSG 100G-20

TOYOLACTM ABSG 100G-30

Sample Receiving Date

28/12/2016

**Testing Period** 

28/12/2016 to 04/01/2017

Test Requested

Selected test(s) as requested by client

Test Method

Please refer to next page(s).

Test Results

Please refer to next page(s).

Analysts

Tan Mei Ann & Shirley Then

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This occument is issued by the Company subject to its December Conditions of Bernice printed country, available on request or accumulate at <a href="http://www.sus.conden/Termus-stot/Conditions.html">http://www.sus.conden/Termus-stot/Conditions.html</a> described for the form of the substance of the deciments of the conditions for Effectionic Documents at <a href="http://www.nas.conden/Termus-abscrames-becommit.ass.as.">http://www.nas.conden/Termus-abscrames-becommit.ass.as.</a>. Afteriors is the substance of t

SGS (Melaysia) Sdn. Bhd. No 26 Jalan Anggerik Vanilla 31/93 Kota Kemuning 40460 Shah Alam, Selangor Darul Ehsan, Malaysia (Company No 10071-T) t+6(03) 5121 2320 4 6 (02) 5121 2002 www.squ.com





**Test Report** 

No. CRSSA/26768-1/16

Date: 04/01/2017

Page: 2 of 5

CRS Ref. CRSSA/16/3013/Toray

Test results:

Test Part Description

Sample Description

As per page 1 & 4

# RoHS Directive 2011/65/EU Annex II

Test Item(s):	Unit	Test Method	Results	MDL	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	N.D.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	N.D.	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	N.D.	2	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321:2008 (Determination of CrVI by UV-Vis)	N.D.	2	1000
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	15	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	929
Dibromoblphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	- 241
Tribromoblphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	790
Tetrabromoblphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	790
Pentabromoblphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	(6)
Hexabromoblphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	(00)
Heptabromoblphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	(*0
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	((e.)
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	700
Decabromoblphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	10-1

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This document is issued by the Company analysis in its General Conditions of Interface Conditions of Conditions and Conditions and Condition Interface Conditions and Condition Interface Condition

SGS (Malaysla) Sdn. Bhd. No 26 Jahrn Anggerik Virrillia 31/fi3 Kota Kemuning 40/60 Shah Alam, Selengor Darul Ehsan, Malaysia (Company No 10871-7) t + 5(03) 5121 2320 T +6 (03) 5121 9082 www.ngs.com

Member of the SGS (troup (5/36 SA)



No. CRSSA/26768-1/16 CRS Ref. CRSSA/16/3013/Toray Date: 04/01/2017

Page: 3 of 5

Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	15/	1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	- 5
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	5.
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	8
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	8
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	2
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	2.
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	2.
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS)	N.D.	5	-

Note: (a) mg/kg = ppm; (0.1wt% = 1000ppm)

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) - = Not regulated

(e) The below information of raw materials or ingredients was provided by the client. SGS has no liability in verifying the authenticity of such information. The testing was carried out using the sample submitted as shown in the photo in page 4.

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC **TECHNICAL MANAGER** 

This document is issued by the Company subject to its General Conditions of Service printed coverted, available on request or occasions at <a href="https://www.max.com/ser/Terms-ser/Conditions.name.name.html">https://www.max.com/ser/Terms-ser/Conditions.name.name.html</a>, Absorbton is drawn to the instance of service for the company of the conditions of the service for the company of the company of the desired of the company of the service in substant that before a related to the Company. Absorbton end instant service in the three of the instancement of service in the service in the

SGS (Malaysia) Sdn. Bhd. No.26 Jalan Anggerik Yanjilla 31/93 Kota Kemuning 40450 Shah Alam, Selangor Darul Ehean, Malaysia 

FUR EALERS .... Annual modes dispersion



**Test Report** 

No. CRSSA/26768-1/16 CRS Ref. CRSSA/16/3013/Toray

Date: 04/01/2017

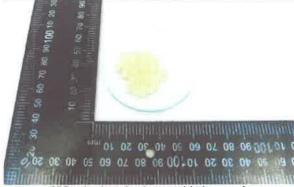
Page: 4 of 5

Test Part Description

Sample Description

TOYOLACTM ABSG 100G-10 TOYOLACTM ABSG 100G-20 TOYOLACTM ABSG 100G-30

TORAY PLASTICS (MALAYSIA) SDN BHD CRSSA/26768-1/16



SGS authenticate the photo on original report only

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This document is issued by the Company adapted to its General Conditions of Bernote printed overteel, available on request or automatide of <u>Info/mem.mas.confestTerrot-end.Sconditions.asps.</u> and, for electronic torinat documents, subject to Terms and Conditions for Electronic Documents at <u>Info/mem.asp.confestTerrot-end.Sconditions.asps.</u> and, for electronic torinate documents, subject to Terms and Conditions for Electronic Documents at <u>Info/mem.asp.confestTerrot-end.Sconditions.asps.</u> and the terms of the information candidated to an electronic member of the Company of Suffice at the time of the information candidated to advant that prince infends to the Company of Suffice at the time of the information and subject to the company of the confest of the Company of Suffice at the time of the information and subject to the company of the company of the company of the company of the subject to the company of th

SGS (Meleysia) Sdn. Bhd. No 26 Jalan Anggerik Varilla 31/93 Kota Kemuning 40/460 Shah Alam, Selangor Darul Ehsan, Malaysia (Company No. 10871-1) 1 4-6(03) 5121 2320 1 7-6 (03) 5121 9082 www.sgs.com

FOR EXTERNAL USE ONL

Member of the SGS Group (SGS SA)



No. CRSSA/26768-1/16 CRS Ref. CRSSA/16/3013/Toray

Date: 04/01/2017

Page: 5 of 5

1. DETERMINATION OF CADMIUM CONTENT BY IEC 62321-5 2013

Sample Receiving and Registration Cut sample in small pieces

Weight sample (0.2-0.5g) into digestion vessel

Acid digestion (Microwave) "Totally Dissolved" Filtration

Analyses by ICP

2. DETERMINATION OF LEAD CONTENT BY IEC 62321-5 2013

Sample Receiving and Registration Cut sample in small pieces

Weight sample (0.2-0.5g) into digestion vessel

Acid digestion (Microwave)

"Totally Dissolved" Filtration Analyses by ICP

3. DETERMINATION OF MERCURY CONTENT BY

IEC 62321-4 2013

Sample Receiving and Registration Cut sample in small pleces

Weight sample (0.1-0.5g) into digestion vessel

Acid digestion (Microwave)

"Totally Dissolved" Filtration

Analyses by ICP

4. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321 2008

> Sample Preparation Add colour-developing reagen Acidity with H2SO4

Let stand for 5-10 min

Analyses by UV- Spectrophotometer (540 nm)

# 5. DETERMINATION OF PBB/PBDE WITH GC-MS BY IEC 62321-6 2015

Cut sample in small pieces Weight sample (0.5-4.0g) into extraction thimble Soxhlet Extraction with Toluene Filter through 0.45 um membrane filter Analyses by GC-MS (with appropriate dilution)

\*\*\* End of Report \*\*\*\*

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This cocument is issued by the Company subject to its General Conditions of Saurice printed rearbor, evaluate, evaluate, evaluation on superat or pocception at <a href="http://www.nac.confus/Testus-and-Conditions.nam.and.">http://www.nac.confus/Testus-and-Conditions.nam.and.</a> for electronic formed Goodmands, subject to Terras and Conditions for Electronic Concurrents at <a href="http://www.nac.confus/Testus-and-Conditions.nam.and.">http://www.nac.confus/Testus-and-Conditions.nam.and.</a> and the substantiant is defeased that before the substantiant of the substantiant of the substantiant is advantaged to the formation containant reflects and Conditions for the three of this information containant or reflects and conditions. The formation of this and the substantiant of the formation of the f

SGS (Malaysia) Sdn. Bhd. No.26 Jalan Anggerik Vanilla 31/93 Kota Kemuning 40460 Shah Alam, Selangor Darul Ehsan, Melaysia (Company No. 10871-T) t+6(03) 5121 2320 f+6 (03) 5121 9082 www.sgs.com

Manager of the SIGE Cross (SIGE SA)



**Test Report** 

No. CRSSA/26768-2/16

Date: 04/01/2017

Page: 1 of 6

CRS Ref. CRSSA/16/3013/Toray

TORAY PLASTICS (MALAYSIA) SDN BHD 2628, MK. 1, SPT., LORONG PERUSAHAAN 4 **PRAIFREE INDUSTRIAL ZONE** 13600 PRAI, PENANG, MALAYSIA

The following merchandise was (were) submitted and identified by the client as:

Sample Description

TOYOLAC™ ABSG 100G-10 TOYOLACTM ABSG 100G-20

TOYOLACTM ABSG 100G-30

Sample Receiving Date 28/12/2016

**Testing Perlod** 28/12/2016 to 04/01/2017

Selected test(s) as requested by client Test Requested

Test Method Please refer to next page(s).

**Test Results** Please refer to next page(s)

Shirley Then Analyst

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC

TECHNICAL MANAGER

This obcurrent is leased by the Company subject to the General Confilience of Service printed overtient, available on request or accurately at jets times, and confirming and Confilience again, and, for electronic formet documents, subject to Terms and Confilience again, and the subject to Terms and Confilience again and the subject to Terms and Confilience again, and the subject to Terms and Confilience again, and the three of the intermedian and jets and the three of the intermedian and jets and the three of the intermedian and jets and which the limits of Client's instruction, it any. The Company's ender responsibility to the Intermedian and jets and the Configuration and jets and the Company of Intermedian and jets and the Intermedian and Jets and and Je

SGS (Matayaia) Sdn. Shd. No.26 Jatan Anggerik Vanilla 31/93 Kota Kemuning 40/460 Shah Alam, Selangor Danul Ehsan, Malaysia 

Murabin of the SGS Group (SGS SA)



No. CRSSA/26768-2/16

Date: 04/01/2017

Page: 2 of 6

CRS Ref. CRSSA/16/3013/Toray

Test result:

Test Part Description

Sample Description

TOYOLACTH ABSG 100G-10 TOYOLACTM ABSG 100G-20

TOYOLACTA ABSG 100G-30

# Optional: RoHS Directive 2011/65/EU, priority substances

Test Item(s):	Unit	Test Method	Results	MDL	Limit
Hexabromocyclododecane (HBCDD) (Cas#25637-99-4 & 3194-55-6)	mg/kg	Based on IEC 62321:2008 (Determination of HBCDD by GC-MS)	N.D.	10	28

### Note:

- (a) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD), Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.
- (b) = not regulated
- (c) N.D. = Not Detected
- (d) The below information of raw materials or ingredients was provided by the client. SGS has no liability in verifying the authenticity of such information. The testing was carried out using the sample submitted as shown in the photo in page 4.

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This document is issued by the Company subject to Ris General Conditions of Service printed overland, positions on request or accessible at <a href="http://www.inst.com/en/Terms.and-Conditions.not Service-Institute documents.as.institute-Institut

SGS (Malaysia) Sdn. Bhd. No.26 Jalan Anggerik Vennie 31/93 Note Kentening 40/400 Shah Alam, Selangor Darul Ehsan, Malaysia (Company No. 10871-T) t+8(03) 5121 2323 f+ (03) 5121 9022 www.ygc.com



**Test Report** 

No. CRSSA/26768-2/16

Date: 04/01/2017

Page: 3 of 6

CRS Ref. CRSSA/16/3013/Toray

Test result:

Test Part Description

Sample Description

TOYOLACTM ABSG 100G-10 TOYOLAC<sub>TM</sub> ABSG 100G-20

TOYOLACTM ABSG 100G-30

# RoHS Directive 2011/65/EU Annex II (amended by Directive (EU) 2015/863)

Test Item(s):	Unit	Test Method	Results	MDL	Limit
Bis (2-ethylhexyl) phthalate (DEHP) (CAS No. 117-81-7)	mg/kg	Based on EN 14372:2004 (Determination of DEHP by GC-MS)	N.D.	30	1000
Butyl benzyl phthalate (BBP) (CAS No. 85-68-7)	mg/kg	Based on EN 14372:2004 (Determination of BBP by GC-MS)	N.D.	30	1000
Dibutyl phthalate (DBP) (CAS No. 84-74-2)	mg/kg	Based on EN 14372:2004 (Determination of DBP by GC-MS)	N.D.	30	1000
Diisobutyl phthalate (DIBP) (CAS No. 84-69-5)	mg/kg	Based on EN 14372:2004 (Determination of DIBP by GC-MS)	N.D.	30	1000

Note: (a) mg/kg = ppm; (0.1wt% = 1000ppm)

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) - = Not regulated

(e) The below information of raw materials or ingredients was provided by the client. SGS has no liability in verifying the authenticity of such information. The testing was carried out using the sample submitted as shown in the photo in page 4.

SGS (MALAYSIA) SDN. BHD

TAY SIAM PINE B.Sc.(HONS) MMIC

**TECHNICAL MANAGER** 

This document is issued by the Company valget to its General Conditions of Barnice printed overheld, available on request or accessible at <a href="http://www.nac.com/recreased-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Company-Conditions/Condition

SGS (Malaysia) Sdn. End. No.25 Jalan Anggerik Vanilla 31/93 Kota Kemuning 40/60 Shah Alam, Selangor Dan Libban, Malaysia (Company No 10871-71 1+6(03) 5121 2320 f+6 (03) 5121 9082 www.sga-com

now of the UGS Group (UGS CA)



No. CRSSA/26768-2/16

Date: 04/01/2017

Page: 4 of 6

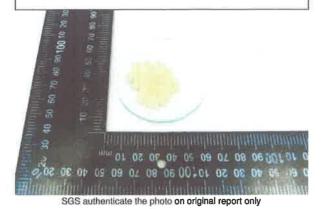
CRS Ref. CRSSA/16/3013/Toray

Test Part Description

Sample Description

TOYOLACTM ABSG 100G-10 TOYOLACTM ABSG 100G-20 TOYOLACTM ABSG 100G-30

TORAY PLASTICS (MALAYSIA) SDN BHD CRSSA/26768-2/16



SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This document is beaused by the Company subject to its Septent Conditions of Service printed operator, available on septent or accountles at <a href="http://www.max.commer/Bures-and-Committons-and-Committees-and-Comm

SSS (Meleysia) Sdn. Bhd.
(Company No. 10871-T)
No. 26 Jelan Anggerik Vanilla 31/93 Kota Komuning 40/90 Shah Alam, Sulasger Dani Elizany, Melnyuta
t+6(03) 5121 2320 1+6 (03) 5721 5032 WWw.spa.com

FOR EXTERNAL USE ONLY



**Test Report** 

No. CRSSA/26768-2/16 CRS Ref. CRSSA/16/3013/Toray

Date: 04/01/2017

Page: 5 of 6

**DETERMINATION OF HBCDD CONTENT** 

Cut sample in small pieces

Weight sample (0.5-4.0g) into extraction thimble

Soxhlet Extraction with Toluene

Filter through 0.45 um membrane filter

Analyses by GC-MS (with appropriate dilution)

SGS (MALAYSIA) SDN. BHD

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This elocutroid is issued by the Company subject to its General Conditions of Service printed overlead, available on request or accountful an Interview muscom/or/Terms-into/Conditions.mill. And the electronic format documents, subject to firms and Considera for Service to Electronic Decisions and Interview muscom/or/Terms-into/Conditions.mill. Advances in the Service of Service (Service Service) and Interview muscom/or/Terms-into/Conditions.

Assuming to Service in Service (Service Service) and Interview muscom/or Service Service Service (Service Service) and Interview muscom/or Service Service Service Service (Service Service) and Interview muscom/or Service Service

SGS (Melayela) Sdn. Bhd. - No.25 datan Anggenik Vanilla S1/55 Kota Kemuning 40-60 Shart Atam, Setangar Datut Ehsain, Melayela 

Mantagrafine 505 Group (6GS SA)

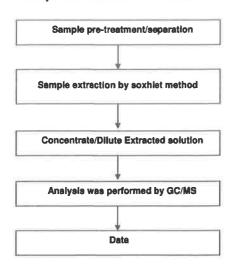


No. CRSSA/26768-2/16 CRS Ref. CRSSA/16/3013/Toray

Date: 04/01/2017

Page: 6 of 6

Analytical flow chart of Phthalates Content



\*\*\*\* End of Report \*\*\*\*

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This document is issued by the Company adject to its General Conditions of Bandce printed overleef, available on respect or accessible on <u>Info/ment.equ.com/mort/equal\_equil\_Conditions.equ.com/mort/equal\_equil\_Conditions.equ.com/mort/equal\_equil\_Conditions.equ.com/mort/equal\_equil\_Conditions.equ.com/mort/equal\_equil\_Conditions.equ.com/mort/equal\_equil\_Conditions.equ.com/mort/equal\_equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equil\_Conditions.equ.com/mort/equ.com/mort/equil\_Conditions.equ.com/mort/equ</u>

SGS (Malaysia) Sdn. Bhd. (Company No. 10871-7) No.28 Jalan Artiggetik Variillia 31/63 Kota Kemuning 40/400 Shah Alarin, Selanger Danvi Ehssin, Malaysia (1+6(03) 5121 2820 (1+5(03) 5121 9082 www.ags.com

Member of the SSS (troup (SSS SA)