

To: Ms. Noreen Bianca Lanado - FDT Purchasing

Supplier Control No.: 19-005

CC: _____

Date: 2/18/2019

CC: _____

Supplier: SPPI

☐ Support for the RoHS

S U P P L I E R	Section	RMC
	Person in charge	<i>SPPI</i> I. SILVAN
	Approval	D. de Justo

4 M Change notification (変更通知書)

Part number	KD04072-Y294	Part name	SIDE GUIDE L3
Model	G960	Presence of attached datum and sample	Appending - unappending
■ Content of change <input checked="" type="checkbox"/> Man (Worker's change) CHANGE OF TRIAL IN-CHARGE <input type="checkbox"/> Machine (Equipment change) FROM AB MOULD INJECT TO SPPI INJECT <input type="checkbox"/> Material (Division of material change) <input type="checkbox"/> Support for the RoHS (Certificate with a data must be attached) [Cr(VI) , Cd, Hg, Pb, PBB, PBDE] <input type="checkbox"/> Material change <input type="checkbox"/> End of life (EOL) <input type="checkbox"/> Method (Work method change) <input type="checkbox"/> Others ()			
■ Change reason Mold was fabricated in AB MOULD PHILS., transferred to SPPI for mass production.			
[Change time]		Evaluation result before hand	

F D T P	Purchasing Section	
	Control Number	PNR-EX-M-411-0016
	Person in charge	N.B. Lanado
	Approval	M.A. GARCIA

FDTP Evaluation and Result

FDTP QC Control No.:

Date:

Section	FDTP QCI/QA
Person in charge	
Approval	

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Section	FDTP PE
Person in charge	
Approval	

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Section	FTEC PE/QA
Person in charge	
Approval	

4 M Change answer

[Conclusion] Judgment : 4 M Content of change request

☐ Acceptable ☐ Not acceptable

■ [Matters in request]

■ [Opinion and evaluation result]

To be filled by supplier 依頼元記入欄

Requesting Supplier
依頼元名

Date 18 February, 2019

SPPI

QUALIFICATION APPROVAL INSPECTION REQUEST FOR PLASTIC MOLDING
DIE AND THE FIRST LOT PARTS
モールド型適用品・初回品 検査依頼票 兼 サンプル送付票

Part No. 図番	KD04072-Y294		Part Name 品名	SIDE GUIDE L13		Rev. 版数	0	Rev. 版数	11	P.O. number 型起工製番	
Molding die classification 区分	New <input type="checkbox"/> DIE MAKE 新規 <input checked="" type="checkbox"/> 2ND DIE	Revision up 改版	Transfer 移管、転注	or	Others () その他()	No. of cavity キャビティ数			1	※The number of samples to be submitted must be 5pcs. or more every each cavity. ※各キャビティ毎に5ヶ以上提出の事	

Application description at the inspection request

検定依頼時の申請内容

① The purpose of inspection request 検定依頼目的		fill out from the 2nd trial TRY2以降について記入	
② location of the die remodeling 型改造箇所		fill out a detail for die remodeling location 型工事箇所を具体的に記入 SAMPLE FOR APPROVAL-T1 IN SPPI TRANSFFRED MOULD FROM JZT (CHINA)	
③ Number of the samples サンプル数		6 pcs. 個	If lacking of samples, fill out its reason 不足の場合理由を記入
self check	④ Attached inspection data 自主検査データ添付	Yes <input checked="" type="checkbox"/> 有り or No <input type="checkbox"/> 無し	If there is no a data, fill out its reason データ未添付の理由を記入
	⑤ Measurement environment 測定環境	Temperature 温度	25 °C Humidity 湿度 %
	⑥ Change of the molding condition 成形条件変更有無	Yes <input type="checkbox"/> 有り or No <input checked="" type="checkbox"/> 無し	⑦ additional working/remedy 追加加工/矯正有無
	⑧ Molding condition slip 成形条件票添付	Yes <input checked="" type="checkbox"/> 有り or No <input type="checkbox"/> 無し	⑨ remarks 備考
		Yes <input type="checkbox"/> 有り or No <input type="checkbox"/> 無し	If change the condition, submit the new molding condition 条件変更の場合は新条件提出の事

※ If the Qualification Approval Request Form have incomplete data, the trial sample will not be accepted/inspected.

To be filled by FDTP FDTP記入欄

- ☐ FDTP) PURCHASE SEC.MANAGER
☐ FDTP) TOOL&DIE DEPT. MANAGER
☐ FDTP) MECHANICAL MANUFACTURING DEPT. MANAGER
☐ FDTP) INSPECTION SEC.MANAGER
☐
☐
☐
☐
☐

QUALIFICATION APPROVAL INSPECTION RESULT FOR PLASTIC
MOLDING DIE AND THE FIRST LOT PARTS
モールド型適用品・初回品 検査結果連絡票

FDTP) INSPECTION SECTION

Part No. 図番			Rev. 版数			Supplier 依頼元		
Part name 品名					Attached data データ添付	Yes <input type="checkbox"/> 有り or No <input type="checkbox"/> 無し		
Die classification 区分	New <input type="checkbox"/> DIE MAKE 新規 <input type="checkbox"/> 2ND DIE	or Revision up 改版	or Transfer 移管、転注	or Others () その他()	Molding condition slip 成形条件票	Yes <input type="checkbox"/> 有り or No <input type="checkbox"/> 無し		
TRY No.	Inspection date 検査年月日	Judgement 判定	Defective part 不良箇所		Remarks 備考	Inspector 検査担当	Checked 調査	Approved 承認
1st trial 第1回トライ		GOOD 合格	Dimension 寸法不良	location 箇所				
		NO GOOD 不合格	Appearance 外観不良					
		others その他						
2nd trial 第2回トライ		GOOD 合格	Dimension 寸法不良	location 箇所				
		NO GOOD 不合格	Appearance 外観不良					
		others その他						
3rd trial 第3回トライ		GOOD 合格	Dimension 寸法不良	location 箇所				
		NO GOOD 不合格	Appearance 外観不良					
		others その他						
4th trial 第4回トライ		GOOD 合格	Dimension 寸法不良	location 箇所				
		NO GOOD 不合格	Appearance 外観不良					
		others その他						

Article 記事

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

SPPI
Sanyo Plastic Philippines, Inc.

TO: Fujitsu Die Tech Corp. of the Phils.

CERTIFICATE FOR MATERIAL USED

D.R./P.O. No. : _____ QUANTITY : 6

PART NUMBER : KD04072-Y294

PART NAME : SIDE GUIDE L3

MATERIAL USED

MATERIAL GENERIC NAME : ABS

MATERIAL DESIGNATION : 100G10

MANUFACTURE OF MATERIAL : TORAY INDUSTRIES INC.

UL94 FLAME CLASS : 94HB

UL FILE No. : E41797

The amount of this product of the regrind materials used is weight ratio 25% or less according to UL 746 regulations.

We certify the above description.

DATE 18-Feb-19

COMPANY NAME : SANYO PLASTIC PHILS., INC

SIGN : MS.M.HERNANDEZ
Supervisor or Manager
(Signature over printed name)

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

Revision 03
8/14/2015

Part Name : **SIDE GUIDE L3**
Part Number: **KD04072 - Y294**
Model: **-**
Material Name: **PC NX86K - 15 BLACK**





Ink Name: N/A
Trial Date: 14-Feb-2019
Evaluation Date: 15-Feb-2019
PTS # / Sample #: 19-0016-FDT

Shafting

Product Trial Schedule versus Product Drawing

Part Number
Part Name/Revision Number
Material Name

REV. IN DRAWING	11
REV. IN ACTUAL	11
REV. IN P.O	

Overall Judgement	Injection Development		QC Department		Customer Approval
	Inspected	Checked	Checked	Noted	
FOR APPROVAL	 Ms. J. Galicia	 Mr. A. Punongbayan	 Ms. E. Sumague	 Ms. D. de Justo	

SANYO PLASTIC PHILS. INC.

110 East Main Ave. SEPZ., L.T.I.

Biliran, Laguna, Philippines

SUMITOMO DEMAG INJECTION MACHINE SET UP SHEET

CAPACITY : 100 TONS

M/C. NO.

45

CONTROL NO.		FDTP-567-45-01		CONTROL NO.		CONTROL NO.		CONTROL NO.			
PART NAME		GUIDE L3		PART NAME		PART NAME		PART NAME			
PART NUMBER		KD04072-Y294		PART NUMBER		PART NUMBER		PART NUMBER			
CUSTOMER		FDTP		CUSTOMER		CUSTOMER		CUSTOMER			
CAVITY AMOUNT		1		CAVITY AMOUNT		CAVITY AMOUNT		CAVITY AMOUNT			
WEIGHT PER PIECE		J. ARANGUREN		WEIGHT PER PIECE		WEIGHT PER PIECE		WEIGHT PER PIECE			
SET UP BY:		14-Feb-19		SET UP BY:		SET UP BY:		SET UP BY:			
EVALUATED BY:		J. GALICIA		EVALUATED BY:		EVALUATED BY:		EVALUATED BY:			
NOTED:				NOTED:		NOTED:		NOTED:			
APPROVED:				APPROVED:		APPROVED:		APPROVED:			
CLAMP CONDITION				CLAMP CONDITION				CLAMP CONDITION			
APPLIED CLAMPING FORCE 60				APPLIED CLAMPING FORCE				APPLIED CLAMPING FORCE			
OPEN/ CLOSE SPEED				OPEN/ CLOSE SPEED				OPEN/ CLOSE SPEED			
MOLD OPEN				MOLD OPEN				MOLD OPEN			
POSITION		VELOCITY		POSITION		VELOCITY		POSITION		VELOCITY	
LIMIT	250	VLIMIT	30	LIMIT	250	VLIMIT	30	LIMIT	250	VLIMIT	30
2ND	150	2ND	35	2ND	150	2ND	35	2ND	150	2ND	35
1ST	80	1ST	25	1ST	80	1ST	25	1ST	80	1ST	25
MOLD CLOSE				MOLD CLOSE				MOLD CLOSE			
CHANGE PARAG				CHANGE PARAG				CHANGE PARAG			
POSITION		VELOCITY		POSITION		VELOCITY		POSITION		VELOCITY	
1ST	140	1ST	20	1ST	140	1ST	20	1ST	140	1ST	20
2ND	65	2ND	15	2ND	65	2ND	15	2ND	65	2ND	15
MOLD CLMP	1.32	VCLAMP	10	MOLD CLMP	1.32	VCLAMP	10	MOLD CLMP	1.32	VCLAMP	10
POS.	25	LW PRES	15	POS.	25	LW PRES	15	POS.	25	LW PRES	15
EJECTOR SETTLING				EJECTOR SETTLING				EJECTOR SETTLING			
RETRACT		FORWARD		RETRACT		FORWARD		RETRACT		FORWARD	
1ST		1ST		1ST		1ST		1ST		1ST	
POS.	0	POS.	0	POS.	0	POS.	0	POS.	0	POS.	0
VEL.	20	VEL.	20	VEL.	20	VEL.	20	VEL.	20	VEL.	20
PRES.	20	PRES.	25	PRES.	20	PRES.	25	PRES.	20	PRES.	25
MODE		TIMER CONT.		MODE		TIMER CONT.		MODE		TIMER CONT.	
EJ.COUNT	1	EJ.KEEP	0.3	EJ.COUNT	1	EJ.KEEP	0.3	EJ.COUNT	1	EJ.KEEP	0.3
EJ. START	PEN LIM	RET.KEEP	0	EJ. START	PEN LIM	RET.KEEP	0	EJ. START	PEN LIM	RET.KEEP	0
DELAY	0	RE-EJ.KEEP	0	DELAY	0	RE-EJ.KEEP	0	DELAY	0	RE-EJ.KEEP	0
INJECTION CONDITION				INJECTION CONDITION				INJECTION CONDITION			
HOLDING/ PACKING				HOLDING/ PACKING				HOLDING/ PACKING			
HOLD PRESS. VEL. 15				HOLD PRESS. VEL.				HOLD PRESS. VEL.			
NO. OF STAGES 3				NO. OF STAGES				NO. OF STAGES			
TIME		PRESSURE		TIME		PRESSURE		TIME		PRESSURE	
4TH		4TH		4TH		4TH		4TH		4TH	
3RD	0.5	3RD	500	3RD	0.5	3RD	500	3RD	0.5	3RD	500
2ND	2	2ND	650	2ND	2	2ND	650	2ND	2	2ND	650
1ST	2	1ST	500	1ST	2	1ST	500	1ST	2	1ST	500
INJECTION/ FILLING				INJECTION/ FILLING				INJECTION/ FILLING			
FILL TIME 3				FILL TIME				FILL TIME			
FILL PRESSURE 1400				FILL PRESSURE				FILL PRESSURE			
POSITION		VELOCITY		POSITION		VELOCITY		POSITION		VELOCITY	
5TH	8	5TH	20	5TH	8	5TH	20	5TH	8	5TH	20
4TH	45	4TH	40	4TH	45	4TH	40	4TH	45	4TH	40
3RD	60	3RD	20	3RD	60	3RD	20	3RD	60	3RD	20
2ND	65	2ND	80	2ND	65	2ND	80	2ND	65	2ND	80
1ST		1ST		1ST		1ST		1ST		1ST	
COOLING 20		FILLING		COOLING		FILLING		COOLING		FILLING	
HOLD		OPERATION		HOLD		OPERATION		HOLD		OPERATION	
INTERVAL 50		V-P PRES 0		INTERVAL		V-P PRES		INTERVAL		V-P PRES	
V-P SWITCH POS. SW		DOSE MODE STD		V-P SWITCH		DOSE MODE		V-P SWITCH		DOSE MODE	
HOLDING PRES		DECLARATING		HOLDING PRES		DECLARATING		HOLDING PRES		DECLARATING	
OPERATION STD		PATTERN		OPERATION		PATTERN		OPERATION		PATTERN	
EXTRUDER SETTING				EXTRUDER SETTING				EXTRUDER SETTING			
PULL BACK - BEFORE				PULL BACK - BEFORE				PULL BACK - BEFORE			
POS 0		VEL. 25 mm/s		POS		VEL.		POS		VEL.	
1ST		2ND		1ST		2ND		1ST		2ND	
OFF		70		OFF		70		OFF		70	
BCK PRES		80		BCK PRES		80		BCK PRES		80	
REV		90		REV		90		REV		90	
DELAY		ON		DELAY		ON		DELAY		ON	
PULL BACK - AFTER				PULL BACK - AFTER				PULL BACK - AFTER			
POS 3		VEL. 25 mm/s		POS		VEL.		POS		VEL.	
OFF		OFF		OFF		OFF		OFF		OFF	
MATERIAL NAME		PC		MATERIAL NAME		PC		MATERIAL NAME		PC	
GRADE		NX86K-15		GRADE		NX86K-15		GRADE		NX86K-15	
COLOR		BLACK		COLOR		BLACK		COLOR		BLACK	
BARREL TEMP.				BARREL TEMP.				BARREL TEMP.			
T1 305		T4 295		T1		T4		T1		T4	
T2 300		T3 290		T2		T3		T2		T3	
T3 295				T3				T3			
MOLD TEMP. SETTING				MOLD TEMP. SETTING				MOLD TEMP. SETTING			
CONTROLLER TYPE MTC				CONTROLLER TYPE				CONTROLLER TYPE			
CORE		CAVITY		CORE		CAVITY		CORE		CAVITY	
SET 80		SET 80		SET		SET		SET		SET	
ACTUAL		ACTUAL		ACTUAL		ACTUAL		ACTUAL		ACTUAL	
ACTUAL MONITORING				ACTUAL MONITORING				ACTUAL MONITORING			
FILL START 75.99		FILL PEAK 1341		FILL START		FILL PEAK		FILL START		FILL PEAK	
V-P SWITCH 8		CYCLE 38.84		V-P SWITCH		CYCLE		V-P SWITCH		CYCLE	
CUSHION 7.9		FILLTIME 2.596		CUSHION		FILLTIME		CUSHION		FILLTIME	
HOLD END 8.94		PLAST TM 13.25		HOLD END		PLAST TM		HOLD END		PLAST TM	
REMARKS				REMARKS				REMARKS			
> 19-0016-FDT > MOLD FABRICATED IN JET > ZERO SET TIME > FLASH=0.200 > VIRGIN MATERIAL > ± 10 % ON PRESSURE, VELOCITY, TIME AND POSITION > ± 10 °C ON TEMPERATURE											

CREATED 2013/03/05
 UPDATED 2013/11/26

Immediately
 Contact with fibers can cause temporary irritation or itching to skin, eye, nose or throat.

Material Safety Data Sheet

1. Chemical Product and Company Identification

Product name : "TORAYCA" NX88K-15
 Name of supplier : Toray Plastics (Shenzhen) Co., Ltd.

Address :

450, NanHuan Rd. West, ShaJing, BaoAn, ShenZhen, Guang Dong Province, P.R. China (518104)
 Telephone number : +86-755-2723-5000
 FAX number : +86-755-2723-5016
 Manager of Production Department : General Manager

Emergency phone No. :

+86-755-2723-5000

Recommended use of the chemical and restrictions on use :

Recommended use : For household appliance, electronic materials, industrial materials.

Use restriction : Do not use for an internal implantation.

If considering use for medical purposes or food container purposes, please contact us in advance about the specific usage.

Product No. (MSDS No.) : R3E-RCCNX88K15N-2

2. Hazards Identification

GHS Classification :

Health Hazards :

Acute toxicity -Oral : Not classified
 Acute toxicity -Dermal : Not classified
 Acute toxicity -Inhalation : Classification not possible
 Skin corrosion/irritation : Classification not possible
 Serious eye damage/eye irritation : Classification not possible
 Respiratory sensitization : Classification not possible
 Skin sensitization : Classification not possible
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified
 Reproductive toxicity : Not classified
 Specific Target Organ/Systemic Toxicity (Single Exposure) : Not classified
 Specific Target Organ/Systemic Toxicity (Repeated Exposure) : Not classified
 Aspiration hazards : Classification not possible

Environmental Hazards :

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

Other hazards which are not covered by the GHS :

Small amount of volatile gases may be released and may irritate eyes, nose and throat.
 Use adequate local exhaust ventilation during drying and molding.
 Sweep up and dispose of spilled resin to eliminate slipping hazard.
 Don't pile up too high in order to avoid injury caused by falling of the product.
 Because carbon fiber included in resin may be scattered by crushing resin, please take the measures begging up

3. Composition/Information on Ingredients

Substance/Mixture : Mixture

Chemical name :

Mixture of Polycarbonate, Flame Retardant, Carbon Fiber, Glass Fiber and additives

Synonyms :

Carbon Fiber, Glass Fiber reinforced Flame Retardant PC Resin

Common chemical name

Polyphenyl-carbonate

Composition(%) : 50% or more

Chemical formula(Constitutional/Structural formula)

(C18H14O3)n

CAS No. : 25971-63-5

ENCs No. : 7-738

ISHL No. : Existing

TSCA : Regd.

Common chemical name

Oligomeric aromatic phosphate

Composition(%) : 20% or less

CAS No. : 139189-30-3

ENCs No. : 3-4403

ISHL No. : 4-9-285

Common chemical name

Carbon fiber

CAS No. : 7440-44-0

ENCs No. : Not applicable

ISHL No. : Not applicable

TSCA : Regd.

Common chemical name

E-Glass

Composition(%) : 7-9%

CAS No. : 65997-17-3

ENCs No. : Not applicable

ISHL No. : Not applicable

TSCA : Regd.

Common chemical name

Maleic anhydride

Composition(%) : 0.1-0.9%

Chemical formula(Constitutional/Structural formula)

C4H2O3

CAS No. : 108-31-6

ENCs No. : 2-1101

ISHL No. : Existing

FOR EXTERNAL USE ONLY

FOR EXTERNAL USE ONLY

Preventive measures for secondary accident :

Shut off all sources of ignition; No flares, smoking or flames in area.

7. Handling and Storage

Handling :

Preventive measures :

Exposure control for handling personnel :

S20-When using do not eat or drink.

S21-When using do not smoke.

S23-Do not breathe dust.

S23-Do not breathe

gas

fumes

Protective measures against fire & explosion :

S33-Take precautionary measures against static discharges.

Local ventilation / Total air ventilation :

Because gas is generated when handling molten resin with molding machine or extruder, use adequate local ventilation.

In addition, in a building, the work space carrying out above work, try for total air ventilation with ventilation fans and so on.

Safety treatments :

Prevent deposition of dust.

Safety Measures/Incompatibility :

S29-Do not empty into drains.

Avoid rough handling or dropping.

Don't breathe the gas generated by processing, because it stimulates skin and respiratory organs and it is possible to feel unwell if you breathe many gas.

Prevent deposition of dust, because a dust explosion may happen by static electricity or electric spark.

Storage :

Recommendation for storage :

This material is flammable. Follow fire defense law and local regulations for storage and handling.

Keep away from direct sunlight, water leak, moisture and sources of heat and ignition. Store in the well-ventilated place and locked up.

Incompatible storage condition :

S15-Keep away from heat.

Recommendation on container and packaging materials :

Use unbreakable container and packaging materials satisfied storage condition.

8. Exposure Control/Personal Protection

Engineering measures :

Because gas is generated when high temperature processing, use adequate local ventilation to keep comfortable work environment.

This material is electrically conductive, and it can cause the short-circuiting of electrical equipments. Proper countermeasure should be needed.

Adopted value :

Japan Society for Occupational Health and ACGIH do not determine adopted value of powder-dust of ABS resin.

Generally, data shown below is known about dusts.

Recommended value of Japan Society for Occupational Health(2008) Class 3 dusts

The weighted average per hour : Respirable dust 2mg/m3, Total dust 8mg/m3

Recommend value of ACGIH(2003) General dust

The weighted average per hour : Inhalation dust 3mg/m3, Total dust 10mg/m3

FOR INTERNAL USE ONLY

FOR EXTERNAL USE ONLY

Insufficient incineration may cause the short-circuiting trouble of electrical equipments.

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 materials that spilled shall be rapidly collected.

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 filed by your responsibility.

Ensure this material 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, if used in combination with any other materials or in any process. It is the user's responsibility to satisfy him-self as to the suitability and completeness of this information for his own particular use.

The information herein 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 whatsoever 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 can not guarantee that there are the only hazards which exist.

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It is advised to make their own tests to determine the safety and suitability of each such product or combination for their own purposes.

References :

This MSDS conform to the JIS standard and Japan MSDS making guideline.

FOR EXTERNAL USE ONLY

April 1, 2017

Dear customer;

Investigation result of using 10 substances of RoHS Directive

We would like to express our deep appreciation for your use of our resin products. As requested in your questionnaire, the investigation result of using 10 substances of RoHS Directive are shown below.

1. Product names to be investigated

- (1)TORAY NYLON resin "AMILAN" all grades
- (2)TORAY NYLON Particulate all grades
- (3)TORAY PBT resin "TORAYCON" all grades
- (4)TORAY PPS resin "TORELINA" all grades
- (5)TORAY LCP resin "SIVERAS" all grades
- (6)TORAY CF RTP resin "TORAYCA" all grades

2. 10 substances of RoHS Directive

- (1)Cadmium and cadmium compounds
- (2)Lead and lead compounds
- (3)Mercury and mercury compounds
- (4)Hexavalent chromium compounds
- (5)Polybromobiphenyls(PBB)
- (6)Polybromodiphenyl ethers(PBDE)
- (7)Bis (2-ethylhexyl)phthalate (DEHP) (CAS No. 117-81-7)
- (8)Benzyl butyl phthalate (BBP)(CAS No. 85-68-7)
- (9)Diethyl phthalate (DEP)(CAS No. 84-74-2)
- (10)Diisobutyl phthalate (DIBP)(CAS No. 84-69-5)

3. Results

We intentionally do not use the substances listed above.

Should you need further information, please feel free to contact us.

Yours faithfully,



Masahiro Nishizawa
General Manager
Plastics Technical Department
Toray Industries, Inc.

FOR EXTERNAL USE ONLY