To: Ms. Noreer	n Bianca Lanado - FDT	Purchasing			Supplier Cont	trol	No.:	19-005
							Date:	2/18/2019
CC:							Supplier:	SPPI
CC;							Section	PMC
☐ Support for the	RoHS					0,00	Person in charge	I SILVAN
4 M Char	nge notification	(文 更 道 知 書)	ls:			1 11 11	Approval	
Part number	KD04072-Y		Part name	SIDE GUIDE L3		77		D of Justo
Model	G960		Prese	nce of attached datum and sam	ple		Appendi	ng - unappending
■Content of cha						!		
■ Man	(Worker's change)		CHANGE OF TR	IAL IN-CHARGE				
	(Equipment change)		FROM AB MOUI	D INJECT TO SPPI IN	JECT			HI-MANULA.
1	(Division of material ch	ange)						H=0111111
1	oport for the RoHS ertificate with a data mus	st be attached) [Cr(VI), Cd, Hg	Pb, PBB, PBDE]		_		· · · · · · · ·
	terial change							
□ End	d of life (EOL)							
☐ Method (V	Vork method change)							
☐ Others ()							
■Change reaso	n]	Mold wa	s fabricated in AB	MOULD PHILS., transf	erred to SPPI fo	or r	nass productio	n.
72					T		Purc	hasing Section
			XXIII-XXXIIII III			F D	Control Number	PUR- EXAM -411- OU
84						T P	Person in charge	N.B. Idopato
[Change tim	no.l			valuation result before ha	nd	-	Approval	ng · unappending
	·			valuation result before ha	FDTP QC Co	nte.		ing unappending
FDTP Evaluatio	n and Result				FDTF QC CO			
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Section	FDTP QCI/QA		Section	FDTP PE		1	Section	FTEC PE/QA
Person in charge		>	Person in charge		Ī)		Person in charge	
4			A	-			A1	
Approval			Approval				Approval	
4 M Ch	ange answer							
[Conclusion]	Judgment: 4 M Co	ntent of change	request			_		
[Contours	oudginone: 4 m ou			The transmission				
		LI Acce	eptable	□ Not acceptable				
[Matters in re	equest]							
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■ [Opinion and	evaluation result]							***************************************
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be filled by FDTP FDTI DFDTP) PURCHASE SEC DFDTP)TOOL&DIE DEPT	, MANAGER		MOLDING DIE AN	D THE FIRS		ULT FOR PLAST	ПС		
) FOTPMECHAMANUFACTURING) FTEC) INSPECTION SEC))		Part 30	No.	19 (19) (EI	的 快速特米)	Rev. 版数	Supplier 依頼元	NKG101	SPECTION SECT
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		D classifi 区	cation Hew	or Revision u 改版	p or Transfer 移管、転注	gc Others (その他() Molding conding to 成形象		es or No Iり 無し
TRY No.	Inspection data 検査年月日	judgement 判定	Defective pa	rt	F	Remarks 備者	Inspecter 检查相当	Checked 指音	Approved 承認
		GOOD 合格	Dimension 寸法不良						
1st trial 第1回トライ			Appearance 外観不良	location 告所					
		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 外親不良	location 箇所					
		NO GOOD 不合格	others その他						
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3rd trial 第3回トライ		NO GOOD	Appearance 外観不良	location					
		不合格	others その他						
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4th trial 第4回トライ		NO GOOD	Appearance 外観不良	location 無所					
		不会格	others その他						
				Artic	le 記事	and the state of t			
Unit Name 機長		Digital calipers	Fジタルノギス		measurement in	trument 測定器 7. Block gauge ブロッ	クゲージ		
P.O. Number 型起	工製器 2	Digital Micromet Digital height ge	or デジタルマイクロメーター ugo デジタルハイトゲージ			8. Protractor プロトラ 9. Projector 工具顕微	クタ ー 攻 論		
	5	Pin gauge ピンゲ Screw gauge ネジ R gauge Rゲージ	ンゲージ			10. CMM 三次元測定 11. Gear rolling teste		1544 1544	

Spp1 Sanyo Plastic Philippines, Inc.

Fujitsu Die Tech Corp. of the Phils.		
CERTIFICATE FOR MATERI	AL 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 ratio 25% or less according to UL 746 regulations. We certify the above description.	ls weigth	
	DATE 18-Feb-19	*
COMPANY NAME: SANYO PLASTIC PHILS.,INC	SIGN: MS.M.HERNAND Supervisor or Manager (Signature over printed nan	- 10

Form No. QCIF 29 Revision 02 6/07/08_Shell

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

Sanyo Plastic Philippines, Inc. PRODUCT EVALUATION SHEET

OPERATIONS DIVISION
QUALITY CONTROL DEPARTMENT

Part Name : SIDE GUIDE L3 Part Number: **KD04072 - Y294**

Model:

Material Name: PC NX86K - 15 BLACK

Ink Name: Trial Date:

N/A

14-Feb-2019

Evaluation Date: 15-Feb-2019

PTS # / Sample #: 19-0016-FDT

Injection

Printing

☐ Shafting

MARK	COORDIN	Standard	Tolerance	Samı	ple No./Cavity		IMTE	JUDGEMENT	REMARKS
	ATES		7010101100	1	2	3	USED		
	12/A	WARP SHOULD	BE 0.7 OR LESS	0.100	0.100	0.100	Ę	ОК	REVERSE WARPING
	12/A	186.50		186.77-186.80	186.75-186.83	186.79-186.87	Е	ОК	
	4/C-D	50.00	+0.70/-0.50	50.04-50.45	49.97-50.45	50.02-50.47	Е	OK	
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GO				4.000	4.000	4.000	_	ок Г	2
STOP				4.090	4.090	4.090	С	OK	2
GO				4.000	4.000	4.000			2
STOP				4.090	4.090	4.090			3
GO	7/D	ø4	+0.1	4.020	4.020	4.020			4
STOP				4.090	4.090	4.090			4
GQ				4.020	4.020	4.020	_	Ov	-
STOP				4.090	4.090	4.090	С	OK	5
GO				4.020	4.020	4.020			,
STOP				4.090	4.090	4.090			6
	7/D-E	59.50	-0.3	59.39-59.45	59.40-59.45	59.39-59.45	I	OK	
Α	3/G	47.80	+0.5/-0.6	47.60-47.82	47.66-47.80	47.60-47.82	Е	OV	
В				47.52-47.60	47.55-47.66	47.53-47.60	C	OK –	
	10/G-H	11.20	±0.20	11.070	11.090	11.090	E	OK	
	15/G	59.80	+0.6/-1.4	59.03-59.63	59.07-59.71	59.10-59.70	E	OK	

Material Name

Part Name/Revision Number

REV. IN DRAWING

11

REV. IN ACTUAL

REV. IN P.O

Remarks:

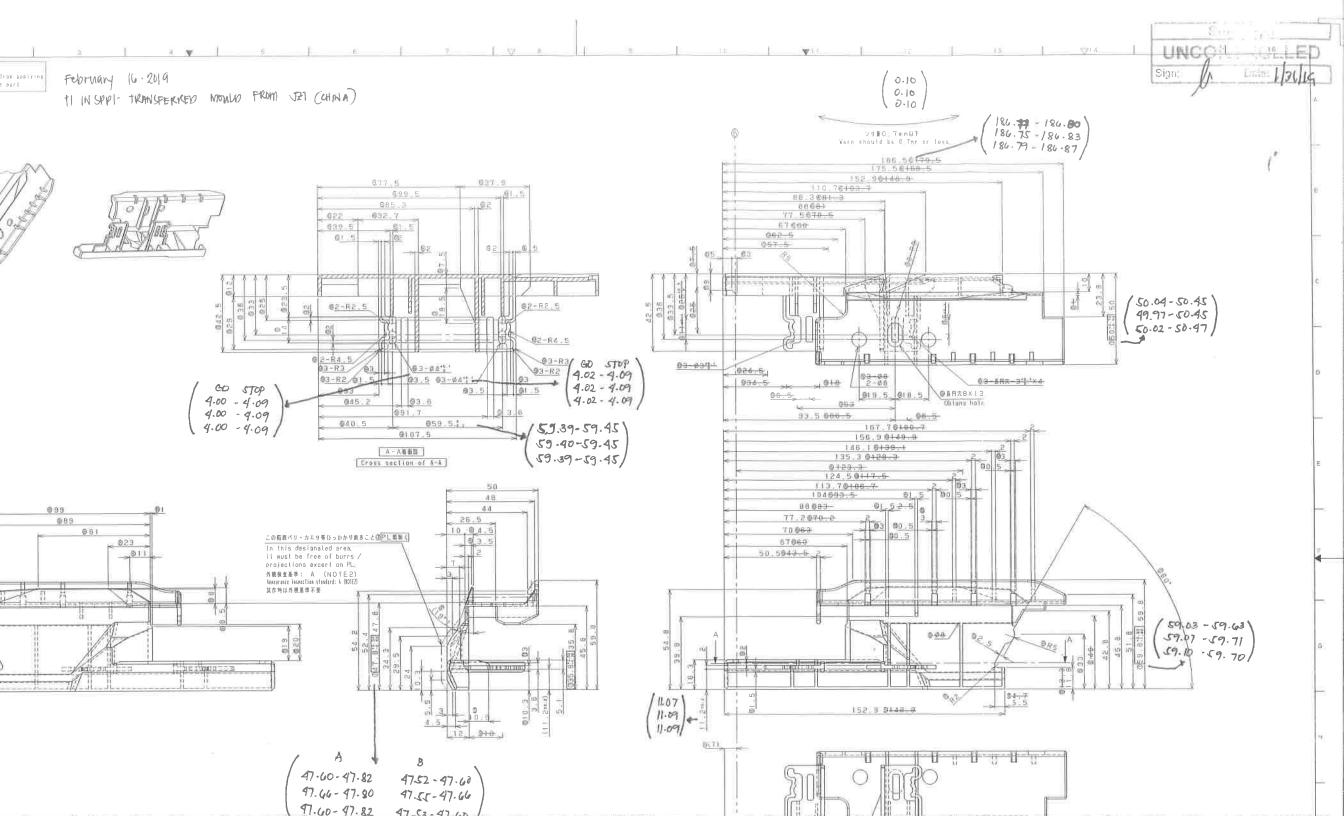
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CALIPER	Α	P.PROJECTOR	F
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T1 IN SPPI-TRANSFERRED MOULD FROM JZT

Overall Judgement	Injection	Development	QC	Department	Customer Approval
Overall Judgement	Inspected	Checked /	Checked	Noted	Customer Approval
FOR APPROVAL	Ms. Pealicia	Mr.A\Punongpayan	Ms. E. Surhague	Ms/p/de ljusto	×

Bilim, Lag	OFTHERE	VICT NO 11		TRUE TO A STORE OF		OFFICE OF	CHANGE BIRE	CLEARS RESIDE		CARACIER		DOMEST			
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DELAY	0	RE-EJ. KEEP		DELAY		RE-EJ. KEEP		DELAY	INVESTOR :	RE-EL KEEP		DELAY	(A) (A) colors or	RE-EJ. KEEP	
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POSITION 5TH	8	VELOCITY 5TH	20	POSITION 5TH	RE	57H		POSITION 57H	RE	5TH		POSITION 5TH	RE	5TH	
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POSITION 5TH 4TH 4TH 3RD 2ND 1ST COOLING HOLD INTERVAL	8 45 60 65 20	VELOCITY 5TH 5TH 5TH 5RD 2ND 1ST FRESION V-P PRES	40 20 80 STD 0	POSITION 5TH 4TH 3RD 2ND INT COOLING HOLD INTERVAL	RE	STH 4TH 3RD 2ND IST FILLING OPERATION V-P PRES		POSITION 5TH 4TH 3RD 2ND 1ST COOLING NULD INTERVAL	RE	STH JTH JRD 2ND IST FULLING OPERATION V-P PRES		POSITION 5TH 4TH 3RD 2ND IST COOLING MOLD INTERVAL	RE	5TH 4TH 3RD 2ND IST FILLING OPERATION V-P PRES	
POSITION 5TH 4TH 3RD 2ND 1ST COOLING HOLD INTERVAL V-P SWITCH	8 45 60 65 20 50 POS. SW	VELOCITY STH JTH 3RD 2ND IST PHLING OPERATION V-P PRES POSE MODE.	40 20 80 STD 0 STD	POSITION STH 4TH 3RD 2ND INT COOLING HOLD INTERVAL V-P SWITCH		STH JTH JRD 2ND IST FILLING OPERATION V-P PRES DOSE MODE	ívá.	POSITION STH 4TH 3RD 2ND IST COOLING MULD INTERVAL V-P SWITCH		STH JTH SRD 2ND IST PHILING OPERATION V-P PRES DOSE MODE	AVT.	POSITION STH 4TH 3RD 2ND IST COOLING MOLD INTERVAL V-P SWITCH		5TH 4TH 3RD 2ND IST FILLING OPERATION V-P PRES DONE MODE	V
POSITION 5TH 4TH 3RD 2ND IST COOLING HOLD INTERVAL Y-P SWITCH HOLDING P	8 45 60 65 20 50 POS, SW	VELOCITY 5TH 4TH 5RD 2ND 1ST 4MLING OPERATION V-P PRES PONE MODEL DECTALARY	40 20 80 STD 0 STD	POSITION STH 4TH 3RD 2ND IST COOLING MOLD INTERVAL V-P SWITCH HOLDING PR		STH 4TH 3RD 2ND IST FILLING OPERATION V-P PRES	wd	POSITION 5TH 4TH 3RD 2ND 1ST COOLING NULD INTERVAL		STH JTH JRD 2ND IST FULLING OPERATION V-P PRES	NOT-	POSITION 5TH 4TH 3RD 2ND IST COOLING MOLD INTERVAL		5TH 4TH 3RD 2ND IST FILLING OPERATION V-P PRES	V
POSETION STH 4TH 4TH 3RD 2ND IST COOLING HULL INTERVAL V.P.SWITCH	8 45 60 65 20 7 POS, SW	VELOCITY STH JTH 3RD 2ND IST PHLING OPERATION V-P PRES POSE MODE.	40 20 80 STD 0 STD	POSITION STH 4TH 3RD 2ND INT COOLING HOLD INTERVAL V-P SWITCH	T/S	STH 4TH 3RD 2ND IST FILLING OPERATION V-P PRES DOSE MODE DIGGGRANGE	wd	POSITION 5TH 4TH 3RD 2ND IST COOLING ROLD INTERVAL V-P SWITCH HOLDING PRO	L ES	STH JTH SRD 2ND IST PHLING OPERATION V-P PRES DON: MODE DI CELARATIA	NOT:	POSITION 5TH 4TH 3RD 2ND IST COOLING HOLD INTERVAL V-P SWITCH HOLDING PR	I ₁ S	STH 4TH 3RD 2ND IST FILLING OPERATION V-P PRES DONE MODE DECELARAT	V
POSITION 5TH 4TH 3RD 2ND IST COOLING HOLD INTERVAL Y-P SWITCH HOLDING P	8 45 60 65 20 7 POS. SW POS. SW STD EXTRUDE	VELOCITY 5TH 4TH 5RD 2ND 1ST 1ST 0PERA (ION V-P PRES POSE MODI. DECKLARA PATTERN	40 20 80 STD 0 STD	POSITION STH 4TH 3RD 2ND IST COOLING MOLD INTERVAL V-P SWITCH HOLDING PR	EXTRUDE PULL BACK	STH 4TH 3RD 2ND 2ND 1ST FILLING OPERATION V-P PRES DOSE MODE 108 TELERN'T PATTERN R SETTING K-BEFORE		POSITION 5TH 4TH 3RD 2ND 1ST COOLING ROLD INTERVAL V-P SWITCH GOLDING PR OPERATION	EXTRUDE PULL BACK	STH 4TH 3RD 2ND 1ST FILLING OPERATION V-P PRES DOIN, MODE DICTLARATI PATTERN R SETTING K - BEFORE		POSITION 5TH 4TH 3RD 2ND 1ST COOLING MOLD INTERVAL V-P SWITCH HOLDING PR OPERATION	EXTRUDE PULL BACK	STH 4TH 3RD 2ND 1ST FILLING OPERATION V-P PRES DONE MODEL PATTERN R SETTING K - BEFORE	V
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POSITION STH 4TH 3TH 3TH 2PD 1ST COOLING HOLD INTERVAL 4P SWITCH HOLDING POPERATION POS POS	8 45 60 65 20 FOS. SW STD EXTRUDE PULL BACK OFF	VELOCITY 57th 47th 47th 58tD 28tD 1ST 40th 40th 40th 40th 40th 40th 40th 40th	20 80 STD 0 STD 0 STD NG PLAST 73	POSITION STH 4TH 3RD 3RD INT COOLING HOLDING HOLDING PR OPERATION POS POS	EXTRUDE:	STH 4TH 3RD 2ND 2ND 1ST FILLING OPERATION V-P PRES DONE MODE DISTRACTOR PARTERN R SETTING X-BEFORE VEL.	mm/s	POSITION 5TH	EXTRUDE PULL BACT	STH 4TH 3RD 2ND 1ST FMLING OPERATION V-P PRES DOSN, MODE DICTALARATI DATTERN R SETTING X - BEFORE VEL	mm/s	POSITION 5TH 4TH 3RD 3RD 1ST COOLING ROLL WERVAL V-P SWITCH HOLDING PR OPERATION POS	EXTRUDE PULL BACL	STH 4TH 3RD 2ND 1ST FILLING OPERATION V-P PRES DONE MODE DECELARATI FATTERN R SETTING K - BEFORE VEL	V (ING mm
POSITION 5TH 4TH 3TH 2ND 1ST COOLING HOLD INTERVAL 4P SWITCH HOLDING POPERATION POS POS BCK PRES	8 45 60 65 20 FOS. SW RES FULL BACC O min ST OFF	VELOCITY 5TH 4TH 3RD 2ND 1ST VILLING OPPERATION V-P PRES PONE MODI. DECYLARAT POSTTERN R SETTING K - BEFORE 1FEL. 2ND 70 80	20 80 STD 0 STD 25 mm/s PLAST 73 70	POSITION STH 4TH 3RD 3RD IST COOLING MOLD INTERVAL V-P SWITCH HOLDING PR OPERATION POS BCK PRES	EXTRUDE:	STH 4TH 3RD 2ND 2ND 1ST FILLING OPERATION V-P PRES DONE MODE DISTRACTOR PARTERN R SETTING X-BEFORE VEL.	mm/s	POSITION 5TH	EXTRUDE PULL BACT	STH 4TH 3RD 2ND 1ST FMLING OPERATION V-P PRES DOSN, MODE DICTALARATI DATTERN R SETTING X - BEFORE VEL	mm/s	POSITION 5TH 4TH 3RD 3RD IST COOLING HOLD INTERVAL V-P SWITCH HOLDING PR OPERATION POS BCK PRES	EXTRUDE PULL BACL	STH 4TH 3RD 2ND 1ST FILLING OPERATION V-P PRES DONE MODE DECELARATI FATTERN R SETTING K - BEFORE VEL	V (ING mm
POSITION 57H 47TH 37RD 2PD 1ST COOLING HOLD INTERVAL V-P SWITCH HOLDING P OPERATION POS POS BCK PRES RKV	8 45 60 65 20 FOS. SW STD EXTRUDE PULL BACK OFF	VELOCITY 57th 47th 47th 58tD 28tD 1ST 40th 40th 40th 40th 40th 40th 40th 40th	20 80 STD 0 STD 0 STD NG PLAST 73	POSITION STH 4TH 3RD 3RD INT COOLING HOLDING HOLDING PR OPERATION POS POS	EXTRUDE:	STH 4TH 3RD 2ND 2ND 1ST FILLING OPERATION V-P PRES DONE MODE DISTRACTOR PARTERN R SETTING X-BEFORE VEL.	mm/s	POSITION 5TH	EXTRUDE PULL BACT	STH 4TH 3RD 2ND 1ST FMLING OPERATION V-P PRES DOSN, MODE DICTALARATI DATTERN R SETTING X - BEFORE VEL	mm/s	POSITION 5TH 4TH 3RD 3RD 1ST COOLING ROLL WERVAL V-P SWITCH HOLDING PR OPERATION POS	EXTRUDE PULL BACI IST	STH 4TH 3RD 3RD 1ST FILLING OPERATION V-P PRES DOSE MODIT DECELARATE FATTERN R SETTING K-BEFORE VEL 2ND	V (ING mm
POSITION 57H 47TH 37RD 2PD 1ST COOLING HOLD INTERVAL V-P SWITCH HOLDING P OPERATION POS POS BCK PRES RKV	8 45 60 65 20 50 POS. SW STD EXTRUDE PULL BACC OFF OFF ON	VELOCITY 5TH 4TH 3RD 2ND 1ST VILLING OPPERATION V-P PRES PONE MODI. DECYLARAT POSTTERN R SETTING K - BEFORE 1FEL. 2ND 70 80	20 80 STD 0 STD 25 mm/s PLAST 73 70	POSITION 5TH 4TH 4TH 3RD 2ND 1ST COOLING MOLD INTERVAL V-P SWITCH HOLDING PR OPERATION POS POS 8CK PRES REV	EXTRUDE:	STH 4TH 3RD 3RD 1ST 1-HLING OPERATION V-P PES DONE MODE 193 TLARATT PATTERN R SETTING C-BEFORE VEL. 2ND	mm/s	POSITION 5TH 4TH 3RD 2ND 1ST COOLING ROLD INTERVAL V-P SWITCH GOLDING PR OPERATION POS SCK PRES REV	EXTRUDE PULL BACK	5TH 4TH 3RD 3RD 1ST PHLING OPERATION V-P PES POST: AGDE DECTARATION ACTUREN R SETTING X - BEFORE VEL 2ND	mm/a PLAST	POSITION 5TH 4TH 3RD 2ND IST COOLING INTERVAL V-P SWITCH HOLDING PR OPERATION POS BCK PRES REV DELAY	EXTRUDE PULL BACI INT PULL BAC	STH 4TH 3RD 2ND 1ST FILLING OPERATION V-P PRES DOSE AGODE DECELLIGHT FATTERN R SETTING K - BEFORE VEL 2ND	V (ING mm
POSITION STH VITH 33RD 23RD 23RD 23RD 23RD 25RD 25RD 25RD 25RD 25RD 25RD 25RD 25	8 45 60 65 20 FOS. SW FID EXTRUDE PULL BACK OFF OFF ON PULL BACK FULL BACK OFF ON PULL BACK OFF	VELOCITY 57th 47th 47th 57th 57th 57th 57th 57th 57th 57th 5	20 80 STD 0 STD 25 mm/s PLAST 73 70	POSITION 5TH 4TH 4TH 4TH 4TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5	EXTRUDE: PULL BACK MITTO	5TH 4TH 3RD 3RD JST FILLING OPERATION V-P PRES DONE MODE DISTERN R SETTING K-BEFORE VEL. 2ND	mm/s	POSITION 5TH 4TH 5TH 4TH 5TH 5TH 5TH 5TH	EXTRUDE PULL BACK	5TH 4TH 3RD 3RD 1ST PHLING OPERATION V-P PRES DOST, MODE DICTALARATI, PATTERN R SETTING K - BEFORE VEL 2ND	mm/s	POSITION 5TH 4TH 3RD 3RD 1ST COOLING ROLD INTERVAL V-P SWITCH ROLDING PR OPERATION POS POS BCK PRES REV POS POS	EXTRUDE PULL BACI INT PULL BAC	STH 4TH 3RD 3RD 1ST FILLING OPERATION V-P PRES DOSE MODIT DECELARATE FATTERN R SETTING K-BEFORE VEL 2ND	MING PLAST
POSITION STH 4TH 33RD 2ND 1ST COOLING HOLD INTERVAL V-P SWITCH HOLDING P OPERATION POS BCK PRES REV DELAY POS DELAY	8 45 60 65 20 FOS. SW FEE PULL BACK OFF ON PULL BACK OFF ON PULL BACK 3 mm	VELOCITY STH JTH JTH JTH JRD 2ND IST VILLING OPPERATION V-P PRES PONE MODE PROTIZER R SETTING K - BEFORE VEL 2ND 70 80 90 K - AFTER VEL OFF	20 80 STD 0 STD 100 ST	POSITION 5TH 4TH 4TH 3RD 2ND 1ST COOLING MOLD INTERVAL V-P SWITCH HOLDING PR OPERATION POS POS BCK PRES RKV DELAY POS DELAY	EXTRUDE PULL BACT INT PULL BACT	5TH 4TH 3RD 3RD JST FILLING OPERATION V-P PRES DONE MODE DISTERN R SETTING K-BEFORE VEL. 2ND	mm/s PIAST	POSITION 5TH 4TH 3RD 2ND - 1ST COOLING ROLD INTERVAL V-P SWITCH GOLDING PR. OPERATION POS BCK PRES REV DELAY POS DELAY	EXTRUDE PULL BACK IST PULL BACK mm	5TH 4TH 3RD 3RD 1ST PHLING OPERATION V-P PES POST: AGDE DECTARATION ACTUREN R SETTING X - BEFORE VEL 2ND	mm/a PLAST	POSITION 5TH 4TH 3TH 4TH 3RD 2ND 1ST COOLING HOLD INTERVAL V-P SWITCH HOLDING PR OPERATION POS BCK PRES REV DELAY POS DELAY	EXTRUDE PULL BACK INT PULL BACK MM	STH 4TH 3RD 2ND 1ST FILLING OPERATION V-P PRES DOSE AGODE DECELLIGHT FATTERN R SETTING K - BEFORE VEL 2ND	MING PLAST
POSITION STH 4TH 33RD 2RD 2RD 2RD 2RT 2PD 2RT	8 45 60 65 20 FOS. SW FEE PULL BACK OFF ON PULL BACK OFF ON PULL BACK 3 mm	VELOCITY STH JTH JTH JTH JTH JTH JTH JTH JTH JTH J	20 80 STD 0 STD 0 STD 73 73 70 80 25 mm/s	POSITION 5TH 4TH 4TH 3RD 2ND 1ST COOLING MOLD INTERVAL V-P SWITCH HOLDING TR OPERATION POS POS 8CK PRES REV DELAY POS DELAY MATERIAL NA	EXTRUDE PULL BACT INT PULL BACT	5TH 4TH 3RD 3RD JST FILLING OPERATION V-P PRES DONE MODE DISTERN R SETTING K-BEFORE VEL. 2ND	mm/s PIAST	POSITION 5TH 4TH 3RD 2ND IST COOLING ROLD INTERVAL V-P SWITCH GOLDING PR OPERATION POS BCK PRES REV DELAY POS DELAY MATERIAL NA	EXTRUDE PULL BACK IST PULL BACK mm	5TH 4TH 3RD 3RD 1ST PHLING OPERATION V-P PES POST: AGDE DECTARATION ACTUREN R SETTING X - BEFORE VEL 2ND	mm/a PLAST	POSITION 5TH 4TH 3TH 4TH 3RD 2ND IST COOLING INTERVAL V-P SWITCH HOLDING PR OPERATION POS POS BCK PRES REV DELAY POS DELAY MATERIAL N.	EXTRUDE PULL BACK INT PULL BACK MM	STH 4TH 3RD 2ND 1ST FILLING OPERATION V-P PRES DOSE AGODE DECELLIGHT FATTERN R SETTING K - BEFORE VEL 2ND	MING PLAST
POSITION STH 4TH 33RD 2RD 2RD 2RD 1ST COOLING HOLD INTERVAL V-P SWITCH HOLDING TO OPERATION POS BCK PRES REV DELAY POS DELAY MATERIAL I GRADE	8 45 60 65 20 FOS. SW FEE PULL BACK OFF ON PULL BACK OFF ON PULL BACK 3 mm	VELOCITY 5TH 4TH 4TH 4TH 5RD 2ND 1ST FULLING OPERATION V-P PRES DONE MODE, DECTIFIEN R SETTING K - BEFORE VEL 2ND 70 80 90 K - AFTER VEL OFF PC NX86K-	20 80 STD 0 STD 0 STD 73 73 70 80 25 mm/s	POSITION 5TH 4TH 4TH 4TH 5TH 4TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5	EXTRUDE PULL BACT INT PULL BACT	5TH 4TH 3RD 3RD JST FILLING OPERATION V-P PRES DONE MODE DISTERN R SETTING K-BEFORE VEL. 2ND	mm/s PIAST	POSITION 5TH 4TH 4TH 3RD 2ND - IST COOLING ROLL WAS SWITCH HOLDING PRO OPERATION POS BOCK PRES REV DELAY A POS MATERIAL NA GRADE	EXTRUDE PULL BACK IST PULL BACK mm	5TH 4TH 3RD 3RD 1ST PHLING OPERATION V-P PES POST: AGDE DECTARATION ACTUREN R SETTING X - BEFORE VEL 2ND	mm/a PLAST	POSITION 5TH 4TH 3TH 4TH 3RD 2ND 1ST COOLING HOLD INTERVAL V-P SWITCH HOLDING PR OPERATION POS BCK PRES REV DELAY POS DELAY	EXTRUDE PULL BACK INT PULL BACK MM	STH 4TH 3RD 2ND 1ST FILLING OPERATION V-P PRES DOSE AGODE DECELLIGHT FATTERN R SETTING K - BEFORE VEL 2ND	MING PLAST
POSITION STH 4TH 33RD 2RD 2RD 1ST COOLING HOLD INTERVAL Y-P SWITCH HOLDING P OPELATION POS BCK PRES REV DELAY MATERIAL I MATERIAL I	8 45 60 65 20 FOS. SW FID EXTRUDE PULL BACK OFF OFF OFF ON PULL BACK 3 mm	VELOCITY STH JTH JTH JTH JTH JTH JTH JTH JTH JTH J	20 80 STD 0 STD 0 STD 73 73 70 80 25 mm/s	POSITION 5TH 4TH 4TH 3RD 2ND 1ST COOLING MOLD INTERVAL V-P SWITCH HOLDING TR OPERATION POS POS 8CK PRES REV DELAY POS DELAY MATERIAL NA	EXTRUDE PULL BACT INT PULL BACT	5TH 4TH 3RD 3RD 1ST PHLING OPERATION V-P PRES DOSS MODE DISTERN R SETTING K-BEFORE VEL. 2ND	mm/s PIAST	POSITION 5TH 4TH 3RD 2ND IST COOLING ROLD INTERVAL V-P SWITCH GOLDING PR OPERATION POS BCK PRES REV DELAY POS DELAY MATERIAL NA	EXTRUDE PULL BACK IST PULL BACK mm	STH 4TH 3RD 3RD 1ST PHLING OPERATION V-P PRES DROY, AND DE DROY, AND DE DROY, AND DE ACTUREN X - BEFORE VEL 2ND CK - AFTER VEL	mm/a PLAST	POSITION 5TH 4TH 3TH 4TH 3RD 2ND IST COOLING INTERVAL V-P SWITCH HOLDING PR OPERATION POS POS POS POS POS BEK PRES REV DELAY POS OBLAY MATERIAL N. GRADE	EXTRUDE PULL BAC INT PULL BAC mm	STH 4TH 3RD 2ND 1ST FILLING OPERATION V-P PRES DOSE AGODE DECELLIGHT FATTERN R SETTING K - BEFORE VEL 2ND	MING PLAST
POSITION STH TTH STH TTH STR STR STR STR	8 45 60 65 20 FOS. SW FID EXTRUDE PULL BACK OFF OFF OFF ON PULL BACK 3 mm	VELOCITY STH JTH JTH JTH JTH JTH JTH JTH JTH JTH J	20 80 STD 0 STD 0 STD 73 73 70 80 25 mm/s	POSITION 5TH 4TH 4TH 4TH 5TH 4TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5	EXTRUDE: PULL BACK INT PULL BACK mm	5TH 4TH 3RD 3RD 1ST PHLING OPERATION V-P PRES DOSS MODE DISTERN R SETTING K-BEFORE VEL. 2ND	mm/s PIAST	POSITION 5TH 4TH 4TH 3RD 2ND = 1ST COOLING ROLL WAS SWITCH HOLDING PRO OPERATION POS BOCK PRES REV DELAY A POS MATERIAL NA GRADE	EXTRUDE PULL BAC IST PULL BAC	STH 4TH 3RD 3RD 1ST PHLING OPERATION V-P PRES DROY, AND DE DROY, AND DE DROY, AND DE ACTUREN X - BEFORE VEL 2ND CK - AFTER VEL	mm/a PLAST	POSITION 5TH 4TH 3TH 3TH 2ND 1ST COOLING INTERVAL V-P SWITCH HOLDING PR OPERATION POS BCK PRES REV DELAY POS DELAY MATERIAL N. GRADE COLOR	EXTRUDE PULL BAC INT PULL BAC mm	STH 4TH 3RD 3RD 2ND IST FILLING OPERATION V-P PRES DOSE MODE DECELARATE PATTERN R SETTING C-BEFORE VEL 2ND K - AFTER VEL L TEMP. T4	mm PIAST
POSITION STH 4TH 33RD 2RD 2RD 2RD 2RT 2RD 2RT 2RD 2RT 2RD 2RT 2RD 2RT 2RD 2RT 2RD	8 45 60 65 20 FOS. SW FEST EXTRUDE PULL BACK OFF OFF ON PULL BACK 3 mm	VELOCITY STH JTH JTH JTH JTH JTH JTH JTH JTH JTH	20 80 STD 0 STD 0 STD 73 70 80 STD 80	POSITION 5TH 4TH 4TH 3RD 2ND 1ST COOLING MOLD INTERVAL V-P SWITCH HOLDING PR OPERATION POS POS BCK PRES RKV DELAY POS DELAY MATERIAL NA GRADE COLOR	EXTRUDE: PULL BACK INT PULL BACK mm	5TH 4TH 3RD 2ND 1ST FILLING OPERATION V-P PRES MODE DOSE MODE DOSE MODE SETTING R SETTING R SETTING 2ND 2ND K-AFTER VEL L TEMP.	mm/s PIAST	POSITION 5TH 4TH 3RD 2ND IST COOLING ROLLING NOTERVAL V-P SWITCH HOLDING PR. OPERATION POS BOK PRES REV DELAY POS DELAY MATERIAL NA GRADE COLOR TI T2	EXTRUDE PULL BAC IST PULL BAC	5TH 4TH 3RD 3RD 1ST PHLING OPERATION V-P PRE DOSY, AGDIE PATTERN R SETTING X - BEFORE VEL 2ND CK - AFTER VEL. 1, TEMP.	mm/a PLAST	POSITION 5TH 4TH 3TH 4TH 3RD 2ND IST COOLING INTERVAL V-P SWITCH HOLDING PR OPERATION POS POS POS BCK PRES REV DELAY MATERIAL N. GRADE COLOR TI T2	EXTRUDE PULL BAC INT PULL BAC mm	STH 4TH 3RD 2ND 1ST FILLING OPERATION V-P PRES DONE MODE DECELARAT FATTERN R SETTING K - BEFORE VEL 2ND K - AFTER VEL L TEMP.	mm PIAST
POSITION STH ITH STRD STRD STRD STRD STRD STRD STRD STR	8 45 60 65 20 50 POS. SW FID EXTRUDE PULL BAC 0 mm IST OFF ON PULL BAC 3 mm NAME NAME	VELOCITY 5TH 4TH 4TH 4TH 5RD 2ND 1ST FILLING OPERATION V-P PRES DOSE MODE, DESTLARST PATTERN R SETTING K - BEFORE VEL 2ND 70 80 90 K - AFTER VEL OFF PC NX86K-BLACK L TEMP. T4 T3	20 80 STD 0 STD 0 STD 73 70 80 STD 15	POSITION 5TH 4TH 4TH 3RD 2ND 1ST COOLING MOLD INTERVAL V-P SWITCH HOLDING PR OPERATION POS POS 8CK PRES REV DELAY POS DELAY MATERIAL N GRADE COLOR	EXTRUDES PULL BACK INT PULL BAC mm.	5TH 4TH 3RD 3RD 1ST FILLING OPERATION V-P PES FOONE MODE 198 TELERATT PATTERN R SETTING K - BEFORE VEL. 2ND KK - AFTER VEL. TEMP. T4 T5	mm/s PIAST	POSITION 5TH 4TH 4TH 3RP 2ND 1ST COOLING MOLD INTERVAL V-P SWITCH GOLDING PR OPERATION POS BCK PRES REV DELAY POS DELAY MATERIAL NA GRADE COLOR	EXTRUDE PULL BAC IST PULL BAC IME BARRE	5TH 4TH 3RD 3RD 1ST PHLING OPERATION V-P PRES DOSN, MODE DROW, ANDE DROW, ANDE ATTERN R SETTING K - BEFORE VEL 2ND K - AFTER VEL 1, TEMP. T4 T5	mm/a PLAST	POSITION 5TH 4TH 3TH 3TH 2ND 1ST COOLING INTERVAL V-P SWITCH HOLDING PR OPERATION POS BCK PRES REV DELAY POS DELAY MATERIAL N. GRADE COLOR	EXTRUDE PULL BAC IST PULL BAC MM	STH 4TH 3RD 2ND IST FILLING OPERATION V-P PRES DOSE ACOUT FATTERY R SETTING K - BEFORE VEL 2ND K - AFTER VEL 1. TEMP	MING MING
POSITION STH #TH #TH #TH #FR #FR #FR #FR #FR #FR #FR #F	8 45 60 65 20 FOS, SW FID EXTRUDE PULL BACK OFF ON PULL BACK 3 mm MAME RARRE 305 MOLD TEM	VELOCITY 5TH 4TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5	20 80 STD 0 STD 0 STD 73 70 80 25 mm/s 25 mm/s 25 290	POSITION 5TH 4TH 4TH 4TH 4TH 5TH 4TH 5TH 4TH 5TH 4TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5	EXTRUDE PULL BAC IST PULL BAC mm AME BARRES MOLD TEM	STH 4TH 3RD 3RD 1ST 1HIJING OPERATION OPERATION PATTERN R SETTING X-BEFORE VEL. 3ND	mm/s PIAST	POSITION 5TH 4TH 5TH 4TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5TH 5	EXTRUDE PULL BACI MM IST PULL BAC MM IST PULL BAC MM MME BARRE	5TH 4TH 3RD 3RD 1ST 5HLING OPERATION V-P PRES DOSS, MODE DICKLAGATI, PATTERN R SETTING K - BEFORE VEL 2ND I. TEMP. I. TEMP. T4	mm/a PLAST	POSITION 5TH 4TH 3TH 4TH 3RD 2ND IST COOLING INTERVAL V-P SWITCH HOLDING PR OPERATION POS BCK PRES REV DELAY POS DELAY MATERIAL NA GRADE COLOR TI 72 73	EXTRUDE PULL BACK INT PULL BACK MME BARRE	STH 4TH 3RD 3RD 2ND IST FILLING OPERATION V-P PRES DOSE MODE DECELARATE PATTERN R SETTING C-BEFORE VEL 2ND K - AFTER VEL L TEMP. T4	MING MING
POSITION STH ITH SIRD SIND SIST POOLLING HOLD INTERVAL V.P. SWITCH HOLDING P OPERATION POS BEK PRES REV POS DELAY MATERIAL I GRADE COLOR TI	8 45 60 65 20 FOS, SW FID EXTRUDE PULL BACK OFF ON PULL BACK 3 mm MAME RARRE 305 MOLD TEM	VELOCITY STH JTH JTH JTH JTH JTH JTH JTH JTH JTH	20 80 STD 0 STD 0 STD 73 70 80 STD 15	POSITION 5TH 4TH 4TH 3RD 2ND 1ST COOLING MOLD INTERVAL V-P SWITCH HOLDING PR OPERATION POS POS BCK PRES REV DELAY POS DELAY MATERIAL NA GRADE COLOR TI T2 T3 CONTROLLEI	EXTRUDE PULL BAC IST PULL BAC mm AME BARRES MOLD TEM	5TH 4TH 3RD 1ST PILLING OPERATION V-P PRES POSE MODE DIGCTLARATE PATTERN R SETTING C-PATTERN VEL 2ND LTEMP. T4 T5 P. SETTING	mm/s PIAST	POSITION 5TH 4TH 4TH 3RD 2ND IST COOLING ROLD INTERVAL V-P SWITCH HOLDING PR. OPERATION POS BCK PRES REV DELAY AMTERIAL NA GRADE COLOR TI T2 T3 CONTROLLER	EXTRUDE PULL BACI MM IST PULL BAC MM IST PULL BAC MM MME BARRE	5TH 4TH 3RD 3RD IST PHLING OPERATION V-P PES DEST-AGDE DEST-AGDE DEST-AGDE DEST-AGDE DEST-AGDE DEST-AGDE VEL 2ND CK - AFTER VEL 1. TEMP. T4 T3	mm/a PLAST	POSITION 5TH 4TH 3TH 4TH 3RD 2ND 1ST COOLING INTERVAL V-P SWITCH HOLDING PR OPERATION POS BCK PRES REV DELAY MATERIAL N. GRADE COLOR TI T2 T3 CONTROLLEI	EXTRUDE PULL BACK INT PULL BACK MME BARRE	STH 4TH 3RD 2ND 1ST FILLING OPERATION V-P PRES DONE MODE DECELARAT FATTERN R SETTING K - BEFORE VEL 2ND "K - AFTER VEL 15 17 17 17 17 17 17 17 17 17 17 17 17 17	MING MING PLAST
POSITION STH ITH STH ITH STRD STRD INT POSITION POSITION POS POS POS POS POS POS POS P	8 45 60 65 20 FOS. SW FOS. SW FILL BACC OFF OFF OFF ON PULL BACC 3 mm MAME RARRE 305 300 295 MOLD TEM ER TYPE	VELOCITY 5TH 4TH 4TH 4TH 4TH 4TH 4TH 4TH 4TH 4TH 4	20 80 STD 0 STD 0 STD 1	POSITION 5TH 4TH 4TH 3RD 2ND 1ST COOLING MOLD INTERVAL V-P SWITCH HOLDING PR OPERATION POS POS 8CK PRES REV DELAY POS DELAY MATERIAL N. GRADE COLOR TI 72 T3 CONTROLLEI CORE	EXTRUDE PULL BAC IST PULL BAC mm AME BARRES MOLD TEM	STH 4TH 3RD 3RD 1ST 1HIJING OPERATION OPERATION PATTERN R SETTING CK - AFTER VEL TEMP T4 T5 P. SETTING CAVITY	mm/s PIAST	POSITION 5TH 4TH 4TH 3RP 2ND IST COOLING ROLD INTERVAL V-P SWITCH GOLDING PR OPERATION POS BCK PRES REV DELAY POS DELAY MATERIAL NA GRADE COLOR TI 72 T3 CONTROLLER CORE	EXTRUDE PULL BACI MM IST PULL BAC MM IST PULL BAC MM MME BARRE	5TH 4TH 3RD 3RD 1ST PHLING OPERATION V-P PRES DOSN, MODE DROW, ANDE DROW, ANDE ATTERN R SETTING K - BEFORE VEL 2ND K - AFTER VEL 1, TEMP. T4 T5	mm/a PLAST	POSITION 5TH 4TH 3TH 4TH 3RD 2ND IST COOLING INTERVAL V-P SWITCH HOLDING PR OPERATION POS BCK PRES REV DELAY POS DELAY MATERIAL NA GRADE COLOR TI 72 73	EXTRUDE PULL BACK INT PULL BACK MME BARRE	STH 4TH 3RD 2ND IST FILLING OPERATION V-P PRES DOSE ACOUT FATTERY R SETTING K - BEFORE VEL 2ND K - AFTER VEL 1. TEMP	MING MING
POSITION STH	8 45 60 65 20 FOS, SW FID EXTRUDE PULL BACK OFF ON PULL BACK 3 mm MAME RARRE 305 MOLD TEM	VELOCITY STH JTH JTH JTH JTH JTH JTH JTH JTH JTH	20 80 STD 0 STD 0 STD 73 70 80 25 mm/s 25 mm/s 25 290	POSITION 5TH 4TH 4TH 3RD 2ND 1ST COOLING MOLD INTERVAL V-P SWITCH HOLDING PR OPERATION POS POS BCK PRES REV DELAY POS DELAY MATERIAL NA GRADE COLOR TI T2 T3 CONTROLLEI	EXTRUDE PULL BAC IST PULL BAC mm AME BARRES MOLD TEM	5TH 4TH 3RD 1ST PILLING OPERATION V-P PRES POSE MODE DIGCTLARATE PATTERN R SETTING C-PATTERN VEL 2ND LTEMP. T4 T5 P. SETTING	mm/s PIAST	POSITION 5TH 4TH 4TH 3RD 2ND IST COOLING ROLD INTERVAL V-P SWITCH HOLDING PR. OPERATION POS BCK PRES REV DELAY AMTERIAL NA GRADE COLOR TI T2 T3 CONTROLLER	EXTRUDE PULL BACI MM IST PULL BAC MM IST PULL BAC MM MME BARRE	5TH 4TH 3RD 3RD 1ST 5HLING 0PERATION V-P PRES DOSS, MODE DICTLIGRATI, PATTERN RETTING K - BEFORE VEL 2ND 1. TEMP. T4 T3 P. SETTING	mm/a PLAST	POSITION 5TH 4TH 3TH 3TH 2ND 1ST COOLING INTERVAL V-P SWITCH HOLDING: PR OPERATION POS BCK PRES REV DELAY POS DELAY MATERIAL N. GRADE COLOR TI T2 T3 CONTROLLES CORE	EXTRUDE PULL BACK INT PULL BACK MME BARRE	STH 4TH 3RD 3RD 1ST FILLING OPERATION V-P PRES DOSE MODE DECELARAY PATTERN R SETTING X-BEFORE VEL 2ND X-AFTER VEL 1T3 THE SETTING TALLING TALLING TALLING TALLING TOPESTORE TALLING TA	e ma
POSITION STH 4TH 33RD 2RD 2RD 2RD 2RD 2RT COOLING ROLL INTERVAL V-P SWITCH ROLDING P POS BCK PRES REV DELAY MATERIAL GRADE COLOR TI TI TI TI CONTROLL CORE SET	8 45 60 65 20 FOS. SW FID EXTRUDE PULL BAC O mm IST OFF ON PULL BAC 3 mm NAME NAME NAME NAME 80	VELOCITY 5TH 4TH 4TH 4TH 4TH 4TH 4TH 4TH 4TH 4TH 4	20 80 STD 0 STD 0 STD 1	POSITION 5TH 4TH 4TH 3RD 2ND IST COOLING MOLD INTERVAL V-P SWITCH HOLDING PR OPERATION POS POS BCK PRES REV DELAY POS DELAY MATERIAL NA GRADE COLOR TI T2 T3 CONTROLLEI CORE SET	EXTRUDE PULL BAC INT PULL BAC MM BARRES MOLD TEM	STH 4TH 3RD 3RD 1ST 1HLING OPERATION V-P PES DOSE MODE 193 TLARATT PATTERN R SETTING CAPITY SET	mm/s PIAST	POSITION 5TH 4TH 3TH 4TH 3RD 2ND - 1ST COOLING ROLLING ROLLING PR. OPERATION POS BOK PRES REV DELAY POS DELAY MATERIAL NA GRADE COLOR TI T2 T3 CONTROLLER CORE SET	EXTRUDE PULL BAC MM IST PULL BAC MME BARRE MOLD TEM	STH JTH JRD JRD JRD JRD JRD JRD JRST PHLING OPERATION V-P PRES DOST, MODE DICTLARATI, PATTERN R SETTING K-BEFORE VEL. 2ND JREAL STATE VEL. T4 T3 CAPITY SET	mm/a PLAST	POSITION 5TH 4TH 3TH 4TH 3RD 2ND IST COOLING INTERVAL V-P SWITCH HOLDING PR OPERATION POS POS POS POS POS POS POS REV DELAY MATERIAL N. GRADE COLOR TI T2 T3 CONTROLLEI CORE SET	PULL BACE PULL BACE MOLD TEM	STH 4TH 3RD 2ND IST FILLING OPERATION V-P PRES DOSE MODIT DECELARATE FATTERN R SETTING K-BEFORE VEL 2ND K-AFTER VEL 1. TEMP. TA TS CAVITY SET	mar elast
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CREATED

2013/03/05

Material Safety Data Sheet

1. Chemical Product and Company Identification

Product name: "TORAY CA" NX86K-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. :

+88-755-2723-5000

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-RCCNX86K15N-2

2. Hazarda Identification

GHS Classification:

Health Hazards:

Acute toxicity -Oral : Not classified Acute toxicity -Dermal : Not classified

Acute toxicity -inhalation : Classification not possible 8kin corresion/initiation : Classification not possible

Serious eve 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 squatic environment (Acute): Not classified Hazardous to the squatic environment (Chronic): Not classified

Other hazards which are not covered by the GHS:

Small amount of voiatile gases may be released and may initiate 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

FOR THIERWAL USE ONLY

immediately

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

3. Composition/information on ingredients

Substance/Micture: Micture

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)

(C16H14O3)n CAS No.: 25971-63-5 ENCS No.: 7-738 ISHL No.: Existing TSCA: Read.

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.: 108-31-8 ENCS No.: 2-1101 ISHL No.: Exteting

FOR EXTERNAL USE ONLY

Shut off all sources of ignition; No flaers, 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,

S22-Do not breathe dust.

Preventive measures for secondary accident :

\$23-Do not breathe

gas

fum es

Protective measures against fire & emilosion :

\$33-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 ventillation with ventilistion fans and so on.

Safety treatments :

Prevent deposition of dust.

Safety Measures/Incompatibility:

\$29-Do not empty into drains.

Avoid rough handling or dropping.

Don't breathe the gas generated by prossecing, 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.

Recommendation for storage:

This material is fammable. 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 tocked 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

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

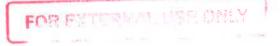
Adopted value :

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



air and keep at rest.

we casualty to fresh air. dyspnea.

eek medical advice.

ce immediately (Show the label where possible.). melting resin, wash the affected area under water

ce immediately (show the label where possible).

inutes. Arrange for transport to the nearest

econ as possible. d continue rinsing.

ce immediately (show the label where possible).

temperature polymer.

ntrogen oxides. Carbon dioxide etc. ake.

g area.

ir, CO2,



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

14. Transport Information

UN No./Packaging group :

N.A.

Marine pollutant :

NA.

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 meterials 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 filled 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-serves 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. Pieces consult us for further information.

To the best of our knowledge, the information contained herein is accurate. However, we seeme any liability whatsoever for the accuracy or completenese 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 determinate 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.





Innovation by Chemistry

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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 CFRTP 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) Dibutyl phthalate (DBP)(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.

OR EXTERNAL USE ONLY