_							
To:	Ms. Angie Cestina			Supplier Con	tro		106
00:	Ms. Joy Flores					Date:	2/12/2019 OB KOGYO PH
<u>cc:</u>	Ms. Icy Flores					Supplier:	OBROGIOTII
cc:	Ms. Cecille Marce				SUP	Section	Engineering Section
☐ Support for th	e RoHS				P	Person in charge	J. SON CALES
4 M Cha	nge notification 康東温旭書)			E	Approval	a Mint
Part number	X0KD04486-Y180 REV. NO. 03	Part name		GEAR	R	2 M09	K. Takahashi
Model ■Content of ch	GPP II	Presen	ce of attached datum and sample			Appendi	ing) unappending
Man	(Worker's change) NEW TECHNICIAN						
1	/ [***************************************					Walling.
1 -	(Division of material change)				*******		***************************************
1	upport for the RoHS					***************************************	enimina in a
	Certificate with a data must be attached)	Cr(VI), Cd, Hg,	Pb, PBB, PBDE]			1-111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 -	
	aterial change						
□ En	nd of life (EOL)		***************************************	***************************************		••••••••••	
	Work method change)						
☐ Others (
■Change reaso	on]		A				
	PARTS LOCALIZAT	TON (OBSZ-OBPH)					
					F	Purc	hasing Section
					D	Control Number	PUR-EX-19-4M-000
					T P	Person in charge	N.B. Langeto
[Change tin	me] Fels-2019	F _V	raluation result before hand		-	Approval	M.A. GAPAN OF THE PROPERTY OF
	1-27-37						ng anapportung
FDTP Evaluation	on and Result			FDTP QC Co	ntr e	01 NO.;	
					3	Date:	
Section	FDTP QCI/QA	Section	FDTP PE		ï	Section	FTEC PE/QA
			FOIFFE				FIEC PE/QA
Person in charge	>	Person in charge		>	•	Person in charge	
Approval		Approval				Approval	
4 14 01):		
4 M Ch	nange answer						
[Conclusion]	Judgment: 4 M Content of change r	request					
	☐ Acce	entable - F	7 Not acceptable				
		sptable L	☐ Not acceptable				
■ [Matters in re	equest]						
3						//////////////////////////////////////	
		***************************************					Hillorida
	14-14-14						
1					777.77		
,							
■ LOpinion and	evaluation result]						
							Hillian
	0.7.A.		A STATE OF THE STA				
						HIVE WATERWAY HILL	TION OF THE STATE
		M. 1 1 1 2 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1					CXXXVIIIV
							IIIIII WE
	CONTRACTOR OF THE STATE OF THE						

FUNCTION TEST CONFIRMATION REQUEST FORM FOR 4M, SUPPLIER CHANGED AND DIE RENEWAL

(To be filled-ou	t by the Purc	hasing)						
Supplier	ов косу	O PHILIPPINES	INC.		Request Date	2/13/2019	Control No.	FT-19-007
Part Number	KD04486	-Y180			Revision No.	03	Requestor	N.B. Lana
Part Name	GEAR Z4	Z M08			Model	GPP II	Approval	M. TONIA OR
	MAN AND				1,000,000		[Approval	The state of
Details of Rec	juest						I	
4M	CHANGED			SUPPLI	ER CHANGED		DIE RENEWAL	3
	EXTERNAL	_		FROM:			CURRENT PARTS SU	DDI IED
COI	NTENT OF C				:		OB PH	T LIEN,
				то:				
	INTERNAL			REASC	N-		DIE FABRICATOR FO OB SHENZHEN	R THE NEW DIE
					-		OB OTTENZIVEN	
(To be filled-out	hy EDTP-O	C Inspection)						
(10 be imed-out	Dy 1 D 11 - Q1	3 mapeouon)					Judgement Date	
Evaluation							Person In - Charge	Approval
Result		- Victoria de la Companya de la Comp		1				
	Judgment	Accepted						
		Not Accepted					Signature Over Printed Name	Signature Over Printed Name
							Judgement Date	
							Sudgement Date	
Function Test							Person In - Charge	Approval
(QCI Evaluation)		1		1				
	Function	Necessary						
	Test	Not Necessay					Signature Over Printed Name	Signature Over Printed Name
(To be filled-out	by FDTP-PE)					•	
							Judgement Date	
Evaluation							Person In - Charge	Approval
Result		Accepted						
	Judgment							
		Not Accepted					Signature Over Printed Name	Signature Over Printed Name
(To be filled-out	by QA Sectio	n)						
							Judgement Date	
							Person In - Charge	Approval
Function Test (QA							, order in - Orlange	Approval
Evaluation)	24012-2002-200-00	Necessary						
	Function Test	Not Necessary						
		THO HOUSSAIY					Signature Over Printed Name	Signature Over Printed Name

TO: Fujitsu Die Tech Corp. of the Phils.

CERTIFICATE FOR MATERIAL USED

D.R./P.O. No. :

QUANTITY: 5 PCS

PART NUMBER X0KD04486-Y180 REV. NO. 03

PART NAME: GEAR Z42 M08

MATERIAL USED

MATERIAL GENERIC NAME :

POM

MATERIAL DESIGNATION:

M90-44

MANUFACTURE OF MATERIAL: POLYPLASTICS

UL94 FLAME CLASS:

UL-94 HB

UL FILE No. :

The amount of this product of the regrind materials used is weigth ratio 0% or less according to UL 746 regulations.

We certify the above description.

DATE

PRESIDENT

TAKAHASHI

COMPANY NAME: OB KOGYO PHILIPPINES INC. SIGN:

FEB 2019

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 Yellow Book contents

m. vour 2/13/109

							M. VOILE
TO:FDTP)	INSPECTION SECTION					2UX	12-Feb
To be filled by s	supplier 依賴元記入欄					Date	12-Feb
				Requesting Supplier 依頼元名		OB KOGYO	PH .
			N APPROVAL INSPECTION DIE AND THE FIF 型適用品·初回品 検	RST LOT PARTS			
Pert No. 図書	X0KD04486-Y180 REV. NO.	Part Name 品名	GEAR Z42 M08	Rev. Rev. 03 ⇒	Rev. 版数	P.O. number 型起工製膏	
Molding die classification 区分	New ☐ DIE MAKE or Revision up 新規 ☐ 2ND DIE 改版	Transfer 沙雷、 和注	or Others)	No. of cavity キャピティ數	pos mor	he number of samples to e every each cavity 子キャピティ毎に5ヶ以上提出	o be submitted must be 5pcs。 出の事
		A. A	ation description at the ins 検定依頼時の申請が				
① The purpos 検定依頼目	se of inspection request 目的	Fill out from the 2nd tria	al TRY2以降について記入				
型改造簡列 ③ Number of	the samples	IMPROVE NG Outside D	emodeling focation 型工事箇所を具体的 plameter If lacking of samples, fill out it		全記入		
	【 Attached inspection data 主検査データ添付	Yes 有明	No If there is no a data, fil 無し	out its reason データ未添付	の理由を記入		
(5)M	easurement environment 定環境	Temperati	ure Hu	midity 显度 47 %			
	Change of the molding condition 形条件変更有無	Yes 有明	No ② additional working/re 無し 追加工/矯正有無		Yes No 用L	If change the condition, su 条件変更の場合は新条件	bmit the new molding condition 提出の事
	Molding condition slip 形条件票添付	Yes 有明	No ⑨ remarks 備考 無し	11			
※ If the	Qualification Approval Requ	est Form have inc	complete data, the tria	l sample will not	t be accer	oted/inspected.	
To be filled by F	DTP FDTP記入欄						
OFDTP)TOOL	ICHASE SEC,MANAGER L&DIE DEPT, MANAGER MANUFACTURING DEPT, MANAGER	MOLDING DI	ION APPROVAL INSPECT E AND THE FIRST LOT PA L適用品 初回品 検乳	RTS	PLASTIC		FDTP)INSPECTION SECTIO
OFTEC)INSPI		art No. 図書		Rev. 版數		Supplier 依頼元	
0	Pa	rt name				Attached data	Yes No

OFDTP) PURCHASE SEC OFDTP)TOOL&DIE DEPT, OFDTP;MECHAMANUFACTURIN	MANAGER			QUALIFICATION MOLDING DIE AN モールト型通	ID T	HE FIRST	LOT PARTS		PLASTIC		FDTP)INSPE(OTION SECTION
OFTEC)INSPECTION SEC,MANAGER O O			Part No. 図書					Rev. 版數		Supplier 依頼元			
0			Part nam 品名	8						Attached da メーカナ・ータ	ta	Yes 有り	No 無し
			Die classificatio 区分	New DIE MAKE 新規 DIE MAKE	or F	Revision up 改版	or Transfer 移管、転注	Others その他	(u)	Molding conditio 成形条件剪		Yes 有り	or No 無し
TRY No.	Inspection date 検査年月日	jud	gement 判定	Defective par 不良箇所	rt		F	emarks 備考		Inspecter 検査担当	Checker 調査	d	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 箇所								
			GOOD 下合格	others その他									
			SOOD 合格	Dimension 寸法不良									
2nd trial 第2回トライ				Appearance 外観不良	location 箇所								
			GOOD C合格	others その他									
			iOOD 合格	Dimension 寸法不良									
3rd trial 第3回トライ				Appearance 外観不良		location 箇所							
			GOOD 合格	others その他									
			iOOD 合格	Dimension 寸法不良									
4th trial 第4回トライ				Appearance 外観不良		location 箇所							
			GOOD 合格	others その他									

measurement instrument 測定器 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. CMM 三次元測定器

11. Gear rolling tester 噛合い試験機 12. Laser scan micrometer レーザーマイクロメーター

Unit Name 機理名

P.O. Number 型起工豐譽

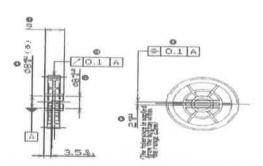
1. Digital calipers デジタルノギス
2. Digital Micrometer デジタルマイクロメーター
3. Digital height gauge デジタルハイトゲージ
4. Pin gauge ピンゲージ
5. Screw gauge ネジゲージ
6. R gauge Rゲージ

QCIF 02A REV 03 05/12/201

Trial Inspection Record

2. 1					ai ilispeci	JOH I VECC	<u>iu</u>				
Supplier Name	ов к	OGYO	Quantily	5	PCS	Temperature	24.1°C	Measuring Equipment N : Nonius Calliper	Prepared	Checked	Approved
Part name	GEAR 2	Z42 M08	Delivery Day	02/1	02/12/2019		47%	M : Micrometer PG : Pin Gauge D : Dial Gauge	GONBAN PAT	- Contra	Fr XINC
Part No	X0KD04486-Y1	80 REV. NO. 03	Trial Day	02/01/2019 Resin Grade POM M90-44 TM : Tool Microscope		for July 5	K. TAKAHASI				
	(4)			⑤			6	(6	APPEARANCI
Measurement Ilems	l _i	D.:			I.D.		GROOVE	WIDTH (LEFT)	GROOVE W	IDTH (RIGHT)	NO
Specification		8			8			2		2	BURR SCRATCHES
Tolerance	+0	1/0		+	0.2/0		+	0.1/0	+0	.1/0	DEFORMATION
	8.000	~8,100		8.00	0~8.200		2.00	0~2,100	2,000	~2.100	
Measuring Equipment	Р	G			PG			PG	F	PG .	E
	PASSS	STOP		PASS	STOP		PASS	STOP	PASS	STOP	
1#1	8.060	8.080		8.170	8,190		2,060	2.090	2.050	2,090	OK
1#2	8.060	8.080		8,170	8.190		2.060	2.090	2,050	2.090	OK
1#3	8.065	8.085		8.170	8.190		2.065	2.085	2.055	2.090	OK
1#4	8.065	8.080		8.175	8.185		2,060	2,085	2,050	2.090	ОК
1#5	8.060	8.085		8.170	8.190		2.065	2.090	2.055	2.085	ОК
Judgement	OK	ОК		OK	ОК		ок	ОК	ОК	ОК	ОК
											ОК
	7		8		9		10		10	12	13
Measurement Items	LENGTH		O.D.		SYMMETRY		RUN OUT		11/1		DISPLACEMENT (
Specification	9		35.2		UNDER 0.1	3	UNDER 0.1		JGMA	CLASS 6	11.09824
Tolerance	+0.3/-0.3		0/-0.1						T-T	TOTAL	0/-0.103
	8.70~9,30		35.10~35.20						50um	160um	10.99524-11.0982
Measuring Equipment	N		М		ТМ		DG			ST.	М
									T-T	TOTAL	
1#1	9.00		35.167		0.011		0.024		41.6	91.6	11,027
1#2	9.00		35.167		0.011		0.024		41.6	91.6	11.027
1#3	9.01		35,166		0.011		0.024		41.6	91.6	11.027
1#4	9.00		35.167		0.013		0.023		41.6	91.6	11.025
1#5	9.02		35.168		0.012		0.025		41.6	91.6	11.026
Judgement	ОК		ОК		ОК		ОК		ОК	ОК	OK
					di-					4	1

Sketch:



Spur gear(Sta	ndard)	
Dutside diameter	Ø35.2\$ ₄	0
Displacement over a given number of teeth	11.09824 1 _m (5)	•
Meshing occurocy	JGMA grade 6	00

The Direction telermon shall be applied to the area marked with

Note:

Appearance : QTY. INSPECTED Dimension : 5 SHOTS/CAV.

RoHS Pass

03	Molding Parameter S	Sheet
	T	

Ust .							LOIUINE	Param	CLCI D	Heet						
Part Name:	:			GEAR	Z42 M08			Customer:			FUJITSU					
Westerland		-		VOK DO 4	40 / V10	0				Martin Maria				0.4		
Part No.					486-Y18	0	No of Cav	zity: 1		Mold No.;				Color		BLACK
Date (mm / dd /			02/01/1													
fime (military tir			20:00		_				-				-			
Person In-Char Machine No // Na			M. MAY				_						_			
Screw Diameter (D12-30)			_		_				-			
Hopper Dryer Tenq			80		-		-		_		-		-			
Qty of Good Cavi			1													
Raw Material / Grad		POI	M/M90-4	14/MB					-							
VALIDATION [DATA	Min	Center	Max	1										_	
Nozzle temperature:	°C				S =	Λ :=	S =	A	S	A =	S=	A =	S =	A =	S =	A=
Nozzle temperature:	°C	185	195	205	S =	A =	S =	A=	S=	A ==	S =	A =	S =	Λ=	IS =	A=
Cylinder temperature: F	°C.	180	190	200	S=	A =	S =	Α=	S =	A =	S =	A =	S =	A =	S =	A=
Cylinder temperature; M	°C	180	190	200	S =	A =	S ==	Λ=	S ==	A =	S =	Λ =	S ==	Λ=	IS =	A
Cylinder temperature_R	°C	175	185	195	S =	A =	S =	A=	S ==	A =	S =-	A =	S =	A =	IS =	A =
Injection Time: T1	sec	2.7	3,0	3,30	_											
Injection Pressure: P1	kg/em² Mpa	1260	1400	1540					_							
Injection Speed: V1	inin s	40	45	50					_				_			
Injection Speed: V2	mm's	5	10	15												
Injection Speed: V3	mmvs										_					
Injection Speed: V4	num s	9.0	10	11					-1		-1					
Holding Speed: Injection Position: S4	min	7.0	8.0	9.0					-				-			
Injection Position: S5	mm	7,0	0.0	7.0												
Injection Position: S6	000															
VP Change over Position	nmi	6.0	7.0	8.0												
Holding Pressure: P2	kg/cm ^a Mpa	680	800	920.0												
Holding Pressure: P3	кр/ста Мра	595	700	805.0												
Holding Pressure: P4	kg/mm* Mpa		(9)													
Holding Time: T3	sec	2.0	3,0	4.0												
Holding Times T4	500	2.0	3,0	4.0												
Holding Time: T5	100		127													
Cooling Time: T2	500	5.4	6.0	6.6												
The setting temperature of cavity	°C	60	70	80	S =	A =	S =	A=	S=	A=	S =	A =	S ⇒	A=	IS =	A =
The setting temperature of core	<u> </u>	60	70	80	S =	A =	S =	A =	S =	A =	S =	A =	S =	A =	S =	A =
REFERENCE DAT	mm	-	26.0		-								-1			
Shot Size: S1 Suck Back Position	mun		3.0		-		_								_	
Back Pressure: P6	lqcan* Mpa		90,0													
Back Pressure: P7	kg/em³ Mpa		80,0													
Back Pressure: P8	kg/cm³ Mpa															
Screw Rotation 1	грт		100.0													
Screw Rotation 2	rpm		80,0		-											
Screw Rotation 2 Back Pressure Position: S10	LDip		24.0													
Back Pressure Position: S10	mm		2430						-						_	
Mold Opening Limit: S1	mm		207.0													
Closing Position 1	mm		180.0													
Closing Position 2	1000		60,0													
Mold Protect	96		4.0													
Closing Speed: V1	1000/8		150													
Closing Speed: V2	mm/s		150		-										-	
Closing Speed: V3 Clamping Force	nun's ton KN		25.0													
Opening Position 1	1000 1000		80.0													
Opening Position 2	mo		180.0													
Opening Speed: V4	000/1		150													
Opening Speed: V5	nun's		150													
Opening Speed: V6	mm's		120													
Eject position	muca		15.0													
Eject Speed Ejector Mode	.mic1		1ST													
MONITOR									-		-1					
cycle time	Hec	15.9	17.7	19.5												
Injection Time	sec	0.6	0.61	0.7												
Plasticization time	400	5.0	5.56	6.1												
	kg/em* Mpa kg/em* Mpa	906.3 627.3	1007 697	766.7									-1			
V→P pressure Cushion	nım nım	2.9	3.2	766.7 3.5												
OTHERS																
Airblow Installed	OK NA		NA													
Limit Switch	OK NA		NA													
Robot Alignment	OK NA		OK													
Conveyor/ Shooter Set up	OR NA		OK													
No. Of Ejection	-		2.0						+-		-		-			
Causes of Condition	Change		TRIAL													
O10a 11 11							-		-				-		-	
Quality situation (note)	ns	/	PK .	0.												
			- Land	10-	_		-		-		-		_		_	
Confirmed by / D	ate	J.	17	LES 4/14												
Approved by / Da	ate	100	M. MAY	0												
	ate	100			-6	41	10.4		Cal	11.				w		

Note: Recording must be done one time within the day of operation. Also verify the actual temperature of the mold temperature controller by the use of thermoscope.

^{*}Always check the validation data if within the tolerance. When the molding conditions is change especially on the validated range, causes of condition change must be recorded.