Product Name												Prepared	by Checke	d by	Approved by	
F	iller Mast	erbatch		CONTROL PLAN									IOT		OPY	
_	Proces	Process Name/	Machine,Device		Characteristics Methods Special		Characteristics				Responsibility	Docation				
Process Number	s Flow	Operation	, Jig,Tools For		5		Char.	Product/Process	Evaluation	San	nple	Control	Method	suoc	Reaction plan	
	Main	Description	Manufacturing	No.	Product	Process	Class	Specification/Tolerance	Measurement Technique	Size	Freq.	Manuf.	Q.C	Resp		
1	$\Diamond$	Incoming		01	Visual Control			<ul><li>Pigment</li><li>Filler</li><li>Additive</li></ul>	Code No. Lot. R/M Quantity	1	Bag	WH-P-001 WH-F-001 ใบส่งของ Invoice PO COA			Return Supplier / Record Incoming Material (WH-F-	
				02	Weighting			± 1%	• Scales	25 kg.		WH-F-001		$\triangle$	002)	
2	$\Diamond$	RM/QC		01	Mixing RM			<ul><li>Pigment 0.1 g.</li><li>Ti02 0.9 g.</li><li>HPPE 100 g.</li><li>Zinestearate 0.065 g.</li></ul>	• Two roll mill	1	Chip		LA-W-004 LA-S-009 LA-W-032 LA-P-003	0	Return	
2				02	Measure △E			Delta E 0.5-3.00	Spectrophotometer				LA-S-003 CIE Lab WH-F-002 Sticker		Warehouse R/M	
3		RM/PREPARATI ON		01	Weighting		SC	• ± 0.01 kg./60 kg. • ± 0.5 g ./7.5 kg	Scales	1	Time	WH-W-003 PL-F-002 PL-F-003		$\triangle$		
4		Mixing	High Speed Mixer	01	Mix			Amp Meter 20-40 Amp.	High Speed Mixer	1	Time	PD-P-001 PD-P-002 PD-W-038 PD-W-039 PD-F-009 PD-F-024 PD-F-033 PD-F-035 PD-F-041 PD-S-002 PL-F-002			Rerun Process	

= Production Manager

= QC & Lap Manager

▲ = Warehouse Manager

Product Name												Prepared			Approved by					
F	iller Mast	erbatch					CON	NTROL PLA	N		D	ON	IOT		OPY					
Process	Proces s Flow	Process Name/	Machine,Device		Characteris	stics	Special		Methods	3				sibility	Reaction					
Number	Main	Operation Description	Jig,Tools For Manufacturing	No.	Product	Process	Char. Class	Product/Process Specification/Tolerance	Evaluation Measurement	Sar Size	rple Freq.	Control Manuf.	Method Q.C	Responsibility	plan					
5		Feeder	FARREL	01	Gravimetric Feeder		SC	Max Load 80%	Technique  Single Screw Extruder Twin Screw Extruder		Time	PD-P-001 PD-P-002 PD-W-065 PD-W-031 PD-F-051 PD-F-011 PD-F-016 PD-F-024 PD-S-002 PL-F-002	<b>Q.</b> 0	■ □	Rerun Process					
6		Mixing	FARREL	01	Kneader		SC	• Max 750 rpm.	Twin Screw	1	Time	PD-P-001 PD-P-002 PD-W-065 PD-W-031 PD-F-051 PL-F-002			Rerun Process					
7		Extrusion	FARREL	01	Extrude			• 1,300-2,700 kg./ Hrs. • Temperature Min 100 °C • Temperature Max 260 °C		1	Time	PD-P-001 PD-P-002 PD-W-065 PD-W-031 PD-F-051 PD-F-016 PD-F-024 PD-S-002 PL-F-002			Rerun Process					
8		Cooling & Pelletizing	Underwater Pelletizer	01	Visual Control			N-A	• Speed 250-4,500 rpm.	N/A	N/A	PD-W-065			Rerun Process					

Responsibility symbol;  $\triangle$  = Warehouse Operator

▲ = Warehouse Manager

= QC & Lap Operator= QC & Lap Manager

☐ = Production Operator

= Production Manager

	Product										Prepared			Approved by		
F	iller Mast	erbatch		CONTROL PLAN									NOT (		OPY	
December	Proces s Flow	Process Name/	Machine, Device		Characteris	stics	Special	Methods						ibility	Dagation	
Process Number	Main	Operation Description	Jig,Tools For Manufacturing	No.	Product	Process	Char. Class	Product/Process Specification/Tolerance	Evaluation Measurement Technique	Sar Size	nple Freq.	Contro Manuf.	Q.C	Responsibility	Reaction plan	
9				01	Delta E (Color Shade)			0.5-3.00	Spectrophotometer				LA-P-003 LA-W-040 LA-W-041			
				02	Dispersion			Visual	Micoscope				CIE Lab LA-W-020 LA-W-031	0	AdJUST Rerun LA-F-006	
		Final Test		03	Homogeneity Contamination		SC	Visual	Magnifier	1			LA-F-006 LA-F-003 LA-F-005	3 5 9 6 5 6 6 9 9 9	(QC-Report) Add Rerun	
				04	Moisture			≤ 0.2 %	KARL FISCHER     MOISTURE     BALANCE		Chip		LA-W-019		By Bland	
				05	Bulk Density test			Customer STD Spec	Bulk Density				Sticker LA-W-006 LA-W-005			
				06	Density test			Customer STD Spec	Density				LA-W-026 LA-W-009			
				07	Ash Conten			Customer STD Spec	Furnance				LA-W-039 LA-S-011			
				08	Additive Conten			Customer STD Spec	• HPLC				ISO18553 (AS DINEN-			
				09	Filter Value			Customer STD (< 2 bar)	• Filter test				13900-6)			
				10	Dispersion Index			Visual	• Film Blowing							
				11	OIT			Customer STD Spec	• Film Blowing							

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O = QC & Lap Operator

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☐ = Production Operator

= Production Manager

Fill	Product Name											Prepared	by Checke	d by	Approved by
Filler	r Mastei	rbatch					CON	ITROL PLA	N		D	ON	IOT		OPY
Process s F	roces	Process Name/	Machine, Device		Characteris	stics	Special		Method	S				ponsibility	Reaction
Number	1 IOW	Operation	lig Tools For			_	Char.	Product/Process	Evaluation	San	nple	Control	Method	Suoc	plan
	Main	Description	Manufacturing	No.	Product	Process	Class	Specification/Tolerance	Measurement Technique	Size	Freq.	Manuf.	Q.C	Resp	·
10		Packing		01	Weighting			1 g.	<ul><li>Scales</li><li>Visual</li></ul>	1	Bag	PD-W-028 PD-W-055 PD-F-012 PD-F-021 PD-F-023 PD-F-030 PD-S-002 PL-F-002 Sticker			Rework

= Production Manager

● = QC & Lap Manager

= Warehouse Manager