Product	Name					CALT	201	DI ANI						က် ကြ	้นฉบับ
Black Masterbatch			CONTROL PLAN												V0 V0 D
	Process			Characteristics				Methods						ility	
Process Number	Flow	Process Name/ Operation Description	Machine, Device, Jig, Tools For	No.	Product	Process	Special Char. Class	Product/Process	Evaluation Measurement	San	nple	Contro	Method	Responsibility	Reaction plan
	Main	Description	Manufacturing	INO.	Ploduct	Process	Class	Specification/Tolerance	Technique	Size	Freq.	Manuf.	Q.C	Resp	
1	\Diamond	Incoming		01	Visual Control			Pigment Filler Additive	Code No. Lot. R/M Quantity	1	Bag	WH-P-001 WH-F-001 ใบส่งของ Invoice PO COA		<u>△</u>	Return Supplier / Record Incoming Material (WH-F-002)
				02	Weighting			± 1%	Scales	25 kg.		WH-F-001		\triangle	wateriai (WTF-1-002)
2	\Diamond	RM/QC		01	Mixing RM			Pigment 0.1 g.Ti02 0.9 g.HPPE 100 g.Zinestearate 0.065 g.	• Two roll mill	1	Chip		LA-W-004 LA-S-009 LA-W-032 LA-P-003	0	Return Warehouse R/M
				02	Measure △E			Delta E 0.5-3.00	Spectrophotometer				LA-S-003 CIE Lab WH-F-002 Sticker	•	
3		RM/PREPARATION		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		$\stackrel{\triangle}{lack}$	
4		Mixing	High Speed Mixer	01	Mix			Batch Size 5 - 250 kg. Amp Meter 0 - 80 Amp. Speed 450 - 1750 rpm.	High Speed Mixer	1	Time	PD-P-001 PD-P-002 PD-W-038 PD-F-009 PD-F-024 PD-F-026 PD-F-033 PD-F-035 PD-F-041 PD-S-002 PL-F-002		-	Rerun Process

☐ = Production Operator

■ = Production Manager

○ = QC & Lap Operator

● = QC & Lap Manager

Responsibility symbol;

△ = Warehouse Operator▲ = Warehouse Manager

Product Name			CONTROL DI ANI													
Black Masterbatch			CONTROL PLAN													
Process Number	Process Flow	Process Name/ Operation Description		Characteristics				Methods						ility		
			Machine, Device, Jig, Tools For Manufacturing	No.	Product	Process	Special Char. Class	Product/Process Specification/Tolerance	Evaluation Measurement	Sample		Control Method		Responsibility	Reaction plan	
	Main			INO.					Technique	Size	Freq.	Manuf.	Q.C	Res	·	
5		Feeder	Buss Kneader 1 Buss Kneader 2	01	Gravimetric Feeder		SC	Max Load 80%	Buss Kneader 1 Buss Kneader 2	1	Time	PD-P-001 PD-P-002 PD-W-010 PD-W-033 PD-F-002 PD-F-004 PD-F-011 PD-F-016 PD-F-018 PD-F-023 PD-F-024 PD-F-027 PD-S-002 PL-F-002			Rerun Process	
6		Extrusion	Buss Kneader 1 Buss Kneader 2	01	Extrude			• 500 - 1,200 kg./ Hrs • Temperature Max 300 °C	Buss Kneader 1 Buss Kneader 2	1	Time	PD-P-001 PD-P-002 PD-W-010 PD-W-033 PD-F-002 PD-F-011 PD-F-012 PD-F-016 PD-F-018 PD-F-023 PD-F-024 PD-F-027 PD-S-002 PL-F-002			Rerun Process	
7		Cooling & Pelletizing	Underwater Pelletizer	01	Visual Control			N-A	• Speed 500-3600 rpm.	N/A	N/A	PD-W-010 PD-W-033			Rerun Process	

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Product Name			CONTROL DI ANI													
Black Ma	asterbatch	1	CONTROL PLAN													
	Process	Process Name/ Operation	Machine,Device, Jig,Tools For Manufacturing	Characteristics				Methods								
Process Number	Flow			No.	Product	Process	Special Char. Class	Product/Process	Evaluation Measurement Technique	Sample		Control Method		Responsibility	Reaction plan	
	Main	Description		NO.	Ploduct	Flocess		Specification/Tolerance		Size	Freq.	Manuf.	Q.C	Resp	P	
		Final Test	02 03 04 05 06 07 08	01	Delta E (Color Shade)		SC	0.5-3.00	Spectrophotometer		Chip		LA-P-003 LA-W-040 LA-W-041		Adjust Rerun	
	\Diamond			02	Dispersion			Visual	Zoom Stero Micoscope				CIE Lab LA-W-020 LA-W-031		LA-F-006 (QC- Report) Add Rerun By Bland	
				03	Homogeneity Contamination			Visual	Floding Magnifier				LA-F-006 LA-F-003 LA-F-005			
				04	Moisture			≤ 0.2 %	Muistrue	1			LA-W-019 Sticker LA-W-006			
8				05	Bulk Density test			Customer STD Spec	Bulk Density				LA-W-005 LA-W-026			
				06	Density test			Customer STD Spec	• Density	1			LA-W-009 LA-W-039			
				07	Ash Conten			Customer STD Spec	Furnance				LA-S-011 ISO18553			
				80	Additive Conten			Customer STD Spec	• HPLC				(AS DINEN- 13900-6)			
				09	Filter Value			Customer STD (< 2 bar)	• Filter test							
				10	Dispersion Index			Visual	• Film Blowing	1						
				11	OIT			Customer STD Spec	• Film Blowing	1						
9		Packing		01	Weighting			10 g.	• Scales • Visual	1	Bag	PD-S-002 PD-F-012 PD-F-018 PD-F-023 Sticker			Rework	

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