MO-S-007-03-11/11/62

	Product	Name										Prepare	d by Check	ed by	Approved by
Black Masterbatch			CONTROL PLAN								ON	OT		OPY	
	Process				Characteris	stics			Metho	ds		_		ility	
Process Number	Flow	Process Name/ Operation	Machine, Device, Jig, Tools For				Special Char.	Product/Process	Evaluation	Sample		Control Method		qisu	Reaction
Number	Main	Description	Manufacturing	No.	Product	Process	Class	Specification/Tolerance	Measurement Technique	Size	Freq.	Manuf.	Q.C	Responsibility	plan
1	\Diamond	Incoming		01	Visual Control			PigmentFillerAdditive	Code No. Lot. R/M Quantity	1	Bag	WH-P-001 WH-F-001 ใบส่งของ Invoice PO COA		A SRITE	Return Supplier / Record Incoming Material (WH- F-002)
				02	Weighting			± 1%	Scales	25 kg.		WH-F-001			
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
_		NIII Q		02	Measure △E			Delta E 0.5-3.00	Spectrophotometer				LA-S-003 CIE Lab WH-F-002 Sticker	•	R/M
3		RM/PREPARATIO N		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

Responsibility symbol ; \triangle = Warehouse Operator

▲ = Warehouse Manager • = QC & Lap Manager

○ = QC & Lap Operator

☐ = Production Operator

= Production Manager

MO-S-007-03-11/11/62

Product Name													by Check	Approved by	
	Black Mas	terbatch				COI	NTR	OL PLAN				ON	OT		OPY
	Process				Characteris	tics			Metho	ds				ility	
Process	Flow	Process Name/ Operation	Machine, Device, Jig, Tools For			Process Special Char. Class	Special Char.	Product/Process	Evaluation	Sample		Control Method		nsib	Reaction
Number	Main	Description	Manufacturing	No.	Product		Specification/Tolerance	Measurement Technique	Size	Freq.	Manuf.	Q.C	Responsibility	plan	
5		Feeder	Buss Kneader 1 Buss Kneader 2	01	Gravimetric Feede		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-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
6		Extrusion	Buss Kneader 1 Buss Kneader 2	01	Extrude			• 500 - 1,200 kg./ Hrs • Temperature Max 300 °0	Buss Kneader 1 C 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 rp	N/A	N/A	PD-W-010 PD-W-033			Rerun Process
Respon	sibility syr	$nbol; \triangle = War$	ehouse Operator		○ = QC	& Lap Ope	erator	☐ = Production	n Operator						

= Production Manager

= QC & Lap Manager

▲ = Warehouse Manager

MO-S-007-03-11/11/62

Product Name						001		01 DI 411				Prepare	d by Checke	ed by	Approved by
	Black Mas	terbatch				COI	NIK	OL PLAN				O N	OT	C	OPY
	Process	Process Name/ Operation	Machine Davies	<u> </u>	Characteristics			Methods						oillity	
Process Number	Flow		Machine, Device, Jig, Tools For			_	Process Special Char. Class	Product/Process Specification/Tolerance	Evaluation Measurement Technique	Sample		Control Method		nsib	Reaction plan
Number	Main	Description	Manufacturing		Product	Process				Size	Freq.	Manuf.	Q.C	Responsibility	ріап
	\Diamond			01	Delta E (Color Shade)			0.5-3.00	Spectrophotometer	1	Chip		LA-P-003 LA-W-040 LA-W-041 CIE Lab LA-W-020 LA-W-031 LA-F-006 LA-F-003 LA-F-005		Adjust Rerun
		Final Test		02	Dispersion			Visual	Zoom Stero Micoscope						LA-F-006 Report) Add Rerun By Bland
				03	Homogeneity Contamination			Visual	Floding Magnifier						
				04	Moisture		SC	≤ 0.2 %	Muistrue				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				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						
				11	OIT			Customer STD Spec	• Film Blowing						
9		Packing		01	Weighting			10 g.	Scales Visual	1	Bag	PD-S-002 PD-F-012 PD-F-018 PD-F-023 Sticker			Rework

Responsibility symbol ; \triangle = Warehouse Operator

▲ = Warehouse Manager

○ = QC & Lap Operator

= QC & Lap Manager

= Production Operator

= Production Manager