Product Name Black Filler Masterbatch			PROCESS FLOW CHART			
Step	Graphical Symb	ool Process Name	Equipment	Key Product & Key Control Characteristics	Corrective Action	
		Start				
1		Raw Material Received	Scales	 Code No., Quantity Weighting ± 1 % / Container 	Return Supplier / Record Incoming Material (WH-F-002)	
2		Incoming Inspection	Two Roll Mill Spectrophotometer	• Mixing RM Temperature 150-300 °C • Delta E (Color Shade) 0.5-3.00	Report To Warehouse	
3		Material Preparation	Scales	 Weighting ± 0.5 g./ 7.5 kg. Weighting ± 0.01 kg./ 60 kg. 		
4		Mixing	High Speed Mixer	 Max 250 kg./ Batch Amp Meter 0-80 Amp. Speed 450 - 1750 rpm.p. 		
5		Feeder	Gravimetric Feeder	• Max Load 80%		
6		Mixing	Kneader	• Max 750 rpm.		
7		Extrusion	Single Screw Extruder	• 1,300-2,700 kg./ Hrs. • Temperature 100-260 °C	Rerun Process	
8		Cooling & Pelletizing	Underwater Pelletizer	• Speed 250 - 4,500 rpm.	Rerun Process	

Product Name Black Filler Masterbatch			PROCESS FLOW CHART				
Step	Graphical Sym	bol Process Name	Equipment	Key Product & Key Control Characteristics	Corrective Action		
9		Final Inspection	Spectrophotometer	• Delta E (Color Shade)	Adjust/ Rerun/ Record QC-Report		
			Microscope	• Dispersion	(LA-F-006)		
			Magnifier	Homogeneity Contamination			
			Karl Fischer	•Moisture			
			Moisture Balance	Moisture			
			Bulk Density Tester	Bulk Density			
			Density Tester	• Density			
			Furnance	• Ash Content			
			High Performance Liquid	Additive Content			
			Chromatography (HPLC)	* Additive Content			
			Filter Test	• Filter Value			
			Film Blowing	Dispersion Index			
			Differential Scanning	Oxidation Induction Time (O.I.T)			
			Calorimeter (DSC)	Original induction Time (O.1.1)			
10		Packing	Scales	Weighting/ Identify Tag & Lable	Standard Packaging Operation		
		End					