Product Name Black Filler Masterbatch		PROCESS FLOW CHART			Prepared by Checked by Approved by DO NOT COPY
Step	Graphical Symbol	Process Name	Equipment	Key Product & Key Control Characteristics	Corrective Action
1		Start 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 100 kg./ BatchAmp Meter 20-40 Amp.	
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

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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	Thousand the second sec	
			Bulk Density Tester	Bulk Density	
			Density Tester	• Density	
			Furnance	• Ash Content	
			High Performance Liquid Chromatography (HPLC)	Additive Content	
l			Filter Test	• Filter Value	
			Film Blowing	• Dispersion Index	
			Differential Scanning	Orientina Industria Time (O I T)	
			Calorimeter (DSC)	Oxidation Induction Time (O.I.T)	
10		Packing	Scales	Weighting/ Identify Tag & Lable	Standard Packaging Operation
		End			