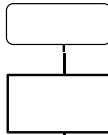
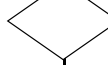

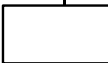

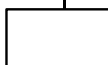
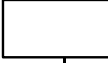
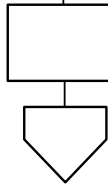

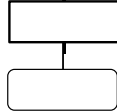


Product Name		PROCESS FLOW CHART				ต้นฉบับ
Additive Filler Masterbatch						
Step	Graphical Symbol	Process Name	Equipment	Key Product & Key Control Characteristics	Corrective Action	
1		Start Raw Material Received	Scales	• Code No., Quantity • Weighting ± 1 % / Container	Return Supplier / Record Incoming Material (WH-F-002)	
2		Incoming Inspection	Two Roll Mill Spectrophotometer	• Mixing RM Temperature 120-300 °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.		
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 1,000-3,500 rpm.	Rerun Process	

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