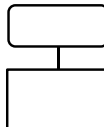
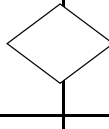
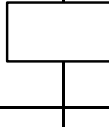
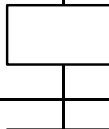
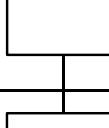
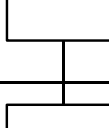
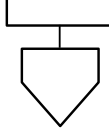
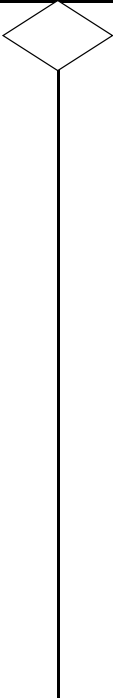
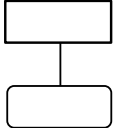


| Product Name      |   | PROCESS FLOW CHART             |                                    |   | Prepared by  | Checked by | Approved by |
|-------------------|---|--------------------------------|------------------------------------|---|--|------------|-------------|
| Black Masterbatch |   |                                |                                    |   | DO NOT COPY  |            |             |
| Step              | Graphical Symbol  | Process Name                   | Equipment                          | Key Product & Key Control Characteristics   | Corrective Action  |            |             |
| 1                 |    | Start<br>Raw Material Received | Scales                             | <ul style="list-style-type: none"><li>• Code No., Quantity</li><li>• Weighting ± 1 % / Container</li></ul>                  | Return Supplier / Record Incoming Material<br>(WH-F-002) |            |             |
| 2                 |    | Incoming Inspection            | Two Roll Mill<br>Spectrophotometer | <ul style="list-style-type: none"><li>• Mixing RM Temperature 120-300 °C</li><li>• Delta E (Color Shade) 0.5-3.00</li></ul> | Report To Warehouse                                      |            |             |
| 3                 |    | Material Preparation           | Scales                             | <ul style="list-style-type: none"><li>• Weighting ± 0.5 g./ 7.5 kg.</li><li>• Weighting ± 0.01 kg./ 60 kg.</li></ul>        |  |            |             |
| 4                 |   | Mixing                         | High Speed Mixer                   | <ul style="list-style-type: none"><li>• Max 100 kg./ Batch</li><li>• Amp Meter 20-40 Amp.</li></ul>                         |  |            |             |
| 5                 |  | Feeder                         | Gravimetric Feeder                 | <ul style="list-style-type: none"><li>• Max Load 80%</li></ul>  |  |            |             |
| 6                 |  | Extrusion                      | Buss Kneader                       | <ul style="list-style-type: none"><li>• 500 - 1,200 kg./ Hrs</li><li>• Temperature 160-300 °C</li></ul>                     | Rerun Process  |            |             |
| 7                 |  | Cooling & Pelletizing          | Underwater Pelletizer              | <ul style="list-style-type: none"><li>• Speed 500-3600 rpm.</li></ul>   | Rerun Process  |            |             |

| Product Name      |   | PROCESS FLOW CHART |  |  | Prepared by                                       | Checked by | Approved by |
|-------------------|---|--------------------|--|--|---|------------|-------------|
| Black Masterbatch |   |                    |  |  | DO NOT COPY                                       |            |             |
| Step              | Graphical Symbol  | Process Name       | Equipment  | Key Product & Key Control Characteristics  | Corrective Action                                 |            |             |
| 8                 |   | Final Inspection   | Spectrophotometer<br><br>Microscope<br><br>Magnifier<br><br>Karl Fischer<br>Moisture Balance<br>Bulk Density Tester<br>Density Tester<br>Furnance<br>High Performance Liquid<br>Chromatography (HPLC)<br>Filter Test<br>Film Blowing<br>Differential Scanning<br>Calorimeter (DSC) | <ul style="list-style-type: none"><li>• Delta E (Color Shade)</li><li>• Dispersion</li><li>• Homogeneity</li><li>• Contamination</li><li>• Moisture</li><li>• Bulk Density</li><li>• Density</li><li>• Ash Content</li><li>• Additive Content</li><li>• Filter Value</li><li>• Dispersion Index</li><li>• Oxidation Induction Time (O.I.T)</li></ul> | Adjust/ Rerun/ Record QC-Report<br><br>(LA-F-006) |            |             |
| 9                 |  | Packing<br><br>End | Scales   | <ul style="list-style-type: none"><li>• Weighting/ Identify Tag &amp; Lable</li></ul>  | Standard Packaging Operation                      |            |             |