# PE MASTERFILL

## Performance Benefits and Overview

This grade contains mainly $CaCO_3$ Calcium Carbonate powder, resin and some additives. $CaCO_3$ made natural mineral calcite with high pure over 99 %, high whiteness > 96 %, treatment surface by additive and use perfect technology. This product used to replace one of part virgin resin, from that help save cost for the end product and improved some properties such as: whiteness, hardness, strength.

| Main Features | |
|---|---|
| Good Dispersion | ✓ |
| Gloss Finish | ✓ |
| Food Contact | ✓ |
| Good Processability | ✓ |
| High Light Fastness | ✓ |
| Excellent Heat Resistance | ✓ |
| Increase Hardness | ✓ |

Depending on processing parameters or local specifications. It is advisable to check with our sales to commercial production.

| $CaCO_3$ Powder Content | 70-86 % |
|---|---|
| Purity | 96-98% |
| Mean particle size (D50) | 1-3 µm |
| Carrier Resin | LLDPE |
| Melt Mass- Flow Rate (190°C/2.16kgs) | 0.1-1 g/10 mins |
| Humidity | 0.08 *wt %* |
| Processing Temperature | 140-280°C |

| | Polymer Compatibility | | | |
|---|---|---|---|---|
| UF002 | LLDPE | HDPE | LDPE | PP |
| | ✓ | ✓ | ✓ | ✓ |

| Standard Packaging | Certificate |
|---|---|
| 25 kg bags (pallet 1350kg)<br>Jumbo Bag (1200 kg) | FDA, REACH, ISO 1900-2015 |

| Main Application | Properties | Dosage |
|---|---|---|
| Blow Film (Roll bags, T-shirt bags, Garbage bags) | PE Film thickness from 8 micron | Upto 20 % |
| | PE Film thickness from 15 micron | Upto 60 % |
| Injection Molding (HDPE Crates) | | Upto 15 % |
| HDPE Blow Molding ( Jerry cans/bottles) | | Upto 40 % |
| Water Drum | | Upto 35 % |

The product should be stored in dry conditions at temperatures below 25ºC protected from direct sunlight. If these protective measures are not taken into account impairment of the product is possible. This can result in degradation of the color, smell or loss of other properties. The data and information contained are presented in good faith, and are based on USMASTERBATCH's current knowledge and experience. They are provided for guidance only. Because many factors may affect processing or application/use of the product. USMASTERBATCH recommends that the reader carry out its own investigations and tests to determine the suitability of a product for its particular purpose prior to us.

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**US MASTERBATCH JOINT STOCK COMPANY**