

Product data sheet



HDPE made via Hostalen Process



HF-4760 (BL3)

HF-4760 (BL3) is a blow molding grade resin which is manufactured by suspension polymerization of ethylene monomer. HF-4760 (BL3) is a bi-modal high density polyethylene with 1-Butene as co monomer.

HDPE: HF-4760(BL₃)

Density: 0.942-0.956 g/cm³

MFR 190/5: 0.9-1.5

Characteristic Properties



- High density and Stiffness, good flowability and impact strength and good Stress Cracking resistance.

Main Applications



- For container with capacities ranging from a few ml up to 10 liters, also for production of sheets for thermoforming.

Additives



- Antioxidant / Process stabilizer
- Lubricant / acid scavenger

Material properties (This data are typical values and are not to be construed as product specifications.)

| Resin Properties | Unit | Typical Value | Test Method |
|------------------------|--------------------|---------------|---------------|
| Melt Index(21.6) | (g/10 min) | 23 | ISO 1133 |
| Melt Index(5) | (g/10 min) | 1.2 | ISO 1133 |
| FRR (21.6/5) | | 19 | |
| Density | g/cm ³ | 0.954 | ISO 1183 |
| Moulded Properties | Unit | Typical Value | Test Method |
| Notched Impact @ 23 °C | mJ/mm ² | 9 | ISO 179/ 1 eA |

Handling and Health Safety

Molten polymers could be injured skin or eye so safety glasses and appropriate gloves are suggested to prevent possible thermal injuries. Also appropriate ventilation is suggested in working by melt polymer.

Accumulation of fines or dust particles that are in this grade is not suitable because of explosion hazard probability. So adequated filters and grounding exists at all time are recommended.

Storage

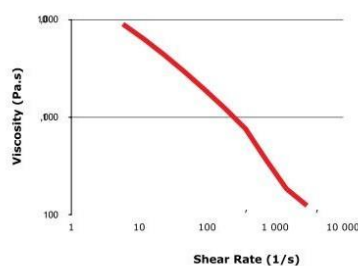
Polyethylene products (in pelletised or powder form) should not be stored in direct sunshine and/or heat radiation. Ultraviolet cause a change in the material properties. The Storage area should be dry and preferably don't exceed 50 °C. Under cool, dry, dark conditions Jam Polymers polyolefin resins are expected to maintain the original material and processing properties for at least 18 month. JPC would not responsible about quality diminishing such as color change, bad smell or ets which caused by bad storage conditions. It is better to process PE resin within 6 months after delivery.

packaging

Jam Polymers Polyolefin resins are supplied in Pellet form packed in 25kg bags. Alternative packaging modes are available for selected grades.

- On compression moulded according to ASTM D1928C Processing Conditions
Recommended barrel tempratures range between 190 °C and 280 °C.

Shear-Viscosity @ 190 °C



The above values were Calculated from data for 100 µm produced on a 75mm Barrnoge extruder with 190°C melt temperature using a 2:1 blow ratio and a gap die of 3.0 mm.