

Technical Data Sheet

Product Description

FM HDPE BL3

BL3 (HF-4760) is a blow-moulding grade high density polyethylene with 1-Butene as co-monomer which is manufactured by the suspension polymerization of ethylene monomers. Stiffness, good ESCR, high rigidity, impact strength and good flowability make it especially suitable for usage in bottles and small blow moulding goods.

- This grade is suitable for food contact conform EEC regulation.

Characteristic	Typical value	Unit	Test method
<i>Mass density (23°C)</i>	0.954	gr/cm ³	ISO 1183
<i>Melt flow rate (190°C/5.0kg)</i>	1.2	gr/10min	ISO 1133
<i>Melt flow rate (190°C/21.6kg)</i>	23	gr/10min	ISO 1133
<i>FRR(21.6/5)</i>	19	-	-
<i>Impact strength (23°C)</i>	≥9	mj/mm ²	ISO 179/1eA
<i>Swell ratio</i>	120	%	MPC-Test
<i>Flexural creep modulus (4 point, 1 min)</i>	1300	Mpa	DIN 19537-2
<i>Tensile modulus (23°C, v=1 mm/min, secant)</i>	1250	Mpa	ISO 527
<i>Stress at break</i>	32	Mpa	ISO 527
<i>Elongation at break</i>	>600	%	ISO 527
<i>Elongation at yield</i>	10	%	ISO 527
<i>Softening temperature</i>	77	°C	ISO 527
<i>Brittle temperature</i>	<-80	°C	ISO 6383-2
<i>Shore D hardness</i>	62	-	ISO 527
<i>Dart drop impact</i>	5	h @3.5 MPa	ASTM D 1709

Notes: Values shown are averages and are not to be considered as product specification. These values may shift slightly as additional data is accumulated. - ISO test methods are the latest under the society's current procedures.

Handling, Health & Safety

Ensure proper ventilation of the work environment to minimize health and safety hazards from fine particles. Ensure machinery and equipment is properly grounded to prevent sparks that can ignite dust. Molten polymers will cause thermal injuries to organic matter, please ensure safety glasses and appropriate safety apparel is worn.

Storage Conditions

Polyethylene products (in pelletized or powder form) should not be stored in direct sunshine and/or heat radiation. Ultraviolet causes a change in the materials properties. The storage area should be dry and preferably not exceed 50 °C. Under cool, dry, dark conditions polyethylene resins are expected to maintain the original properties for at least 18 month. FM Plastics cannot be held responsible for diminishing qualities due to poor storage conditions, such as; color change, foul smell etc. Generally, it is considered best to process polyethylene resin within 6 months after delivery.

Packaging

Polyethylene resins are supplied in pellet form packed in 25kg bags on 1.375 kg pallets.



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