HD 0358 BM

Technical Data Sheet

Polyethylene, High Density. Natural Grade

HIGH DENSITY POLYETHYLENE. NATURAL GRADE

Product Description

HD 0358 BM is a bimodal high density polyethylene copolymer (with 1-Hexene) supplied in pellet form, which has an outstanding environmental stress cracking resistance/stiffness balance for use in a wide range of blow moulding applications.

HD 0358 BM usually allows significant down gauging and is particularly well suited for chemical & detergent market where a good environmental stress cracking resistance is required

Product Characteristics

Application	Containers up to 30 liters for chemicals, most household products, oils, foodstuffs and pharmaceuticals
Processing Method	Extrusion Blow Molding
Market	Rigid Packaging. Industrial Packaging.
Features	Bimodal. Cr-alike Die Swell. High Rigidity. High ESCR.

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt flow rate (MFR) (190°C/2.16kg)	0.3	g/10 min	ISO 1133
Melt flow rate (MFR5) (190°C/5.0kg)	1.2	g/10 min	
Melt flow rate (HLMI) (190°C/21.6kg)	26	g/10 min	ISO 1133
Density	0.958	g/cm³	ISO 1183
Mechanical			
Flexural Modulus	1300	MPa	ISO 178
Tensile Strenght at Yield	28	MPa	ISO 527-1-2
Elongation at Break	>300	%	ISO 527-1-2
Chemical			
ESCR - BTT Stress Crack Resistance (F50 at 50°C)	>200	hour	ASTM D1693
Impact			
Izod Impact Strength	10	kJ/m²	ISO 180

Notes

These are typical property values not to be construed as specification limits

REACH

Polyethylene are exempted from registration under REACH. However, the corresponding monomers (used as raw materials for polymer production) and relevant additives have been registered. Please see related Declaration of Compliance for Plastic Food Contact Materials (DoC for PFCM).

Packaging

Polyethylene pellets is typically packed in polyethylene bags with net weight of 25kg each. 50 bags are stacked on a flat wooden pallet (dimensions: 1100mm x 1300mm x 150mm) with net weight of 1250kg per pallet that is stretch-hood film wrapped. Upon agreement with a customer PE pellet can be packed into big bag sized for 1000kg on wooden pallet (dimensions: 1140mm x 1140mm x 150mm) without stretch-hood film wrapping.

Storage

Polyethylene product packed in 25kg bags or 1000kg big bags stacked on wooden pallet shall be stored in enclosed dry place preventing from direct sunlight at least 1 meter far from heaters, at temperature min. -15°C / max. 35°C, relative humidity max. 80%. Prior to processing PE product bags shall be kept in production area for at least 12 hours.

PE shelf life is 60 months from the date of manufacture.