HL 1050 BF

Technical Data Sheet

Polyethylene, High Density. Natural Grade

HIGH DENSITY POLYETHYLENE. NATURAL GRADE

Product Description

HL 1050 BF is a high molecular weight high density polyethylene copolymer (with 1-Hexene) with broad bimodal molecular weight distribution developed for the blown film application.

Films made with this HDPE-grade offer high stiffness, good heat sealing response, and resistance to trait propagation.

Product Characteristics

Application	Very thin blown film on high-speed lines
Processing Method	Blown Film Extrusion
Market	Flexible Packaging
Features	High Molecular Weight. Bimodal. High Speed Processing

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt flow rate (MFR) (190°C/2.16kg)	0.07	g/10 min	ISO 1133
Melt flow rate (MFR5) (190°C/5.0kg)	0.3	g/10 min	ISO 1133
Melt flow rate (HLMI) (190°C/21.6kg)	10	g/10 min	ISO 1133
Density	0.950	g/cm³	ISO 1183
Mechanical (15 µm blown film)			
Tensile Strength at Yield, MD	32	MPa	ISO 527-3
Tensile Strength at Yield, TD	29	MPa	ISO 527-3
Tensile Strenght at Break, MD	70	MPa	ISO 527-3
Tensile Strenght at Break, TD	40	MPa	ISO 527-3
Elongation at Break, MD	>300	%	ISO 527-3
Elongation at Break, TD	>350	%	ISO 527-3
Dart Drop Impact	>300	g	ASTM D 1709

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.