

HM 0452 EX

Technical Data Sheet

Polyethylene, High Density. Natural Grade



Product Description

HM 0452 EX is a high molecular weight high density polyethylene copolymer (with 1-Hexene) with bimodal molecular weight distribution.

HM 0452 EX is intended for general purpose extrusion.

Product Characteristics

Application	General Purpose. Extrusion. Blown Film
Processing Method	Extrusion
Market	Industrial
Features	High Molecular Weight. Bimodal.

Typical Properties

	Nominal Value	Units	Test Method
Physical			
Melt flow rate (MFR) (190°C/2.16kg)	0.09	g/10 min	ISO 1133
Melt flow rate (MFR5) (190°C/5.0kg)	0.4	g/10 min	ISO 1133
Melt flow rate (HLMI) (190°C/21.6kg)	12	g/10 min	ISO 1133
Density	0.952	g/cm ³	ISO 1183
Mechanical			
Tensile Modulus (1 mm/min)	1000	MPa	ISO 527
Tensile Strength at Yield, (23°C, 50 mm/min)	20	MPa	ISO 527
Elongation at Break, (23°C, 50 mm/min)	>300	%	ISO 527
Thermal			
Vicat Softening Point (1 kg)	126	°C	ISO 306

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 36 months from the date of manufacture.

HIGH DENSITY POLYETHYLENE. NATURAL GRADE