HM 0656 EX

Technical Data Sheet

Polyethylene, High Density. Natural Grade

HIGH DENSITY POLYETHYLENE. NATURAL GRADE

Product Description

HM 0656 EX is a natural high density bimodal polyethylene copolymer (with 1-Hexene as comonomer) intended for sheet and pipe extrusion.

HM 0656 EX is developed for the extrusion of non-pressure pipes and sheets intended for industrial parts as well. The grade is also suitable for the production of irrigation tubes intended for the manufacture of drip irrigation systems.

Product Characteristics

Application	Sheet Extrusion. Non-Pressure Pipes. Irrigation Tubes
Processing Method	Extrusion
Market	Industrial. Construction. Agriculture
Features	High Molecular Weight. Bimodal

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt flow rate (MFR) (190°C/2.16kg)	0.15	g/10 min	ISO 1133
Melt flow rate (MFR5) (190°C/5.0kg)	0.6	g/10 min	ISO 1133
Melt flow rate (HLMI) (190°C/21.6kg)	16	g/10 min	ISO 1133
Density	0.956	g/cm³	ISO 1183
Mechanical			
Tensile Modulus (1 mm/min)	1200	MPa	ISO 527
Tensile Strenght at Yield, (23°C, 50 mm/min)	25	MPa	ISO 527
Elongation at Break, (23°C, 50 mm/min)	>500	%	ISO 527
Thermal			
Vicat Softening Point (1 kg)	127	°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 60 months from the date of manufacture.