# HM 0452 EX

Technical Data Sheet

Polyethylene, High Density. Natural Grade

HIGH DENSITY POLYETHYLENE. 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/cm³ | ISO 1183 |
| **Mechanical** | | | |
| Tensile Modulus (1 mm/min) | 1000 | MPa | ISO 527 |
| Tensile Strenght 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 60 months from the date of manufacture.