

SIBUR

Technical Data Sheet PE HD40552 IM High-Density Polyethylene

PRODUCT DESCRIPTION

PE HD40552 IM is a high-density hexene copolymer with a narrow molecular weight distribution. The enhanced properties and anti-UV formulation give the product an advantageous combination of good processability and improved mechanical characteristics. Articles produced from this grade show rigidity, good impact strength and high environment stress crack resistance (ESCR).

TYPICAL APPLICATIONS

PE HD40552 IM is recommended for Injection Molding applications such as large dustbins and pails, pallet boxes, crates and technical items.

| Properties | Conditions | Method | Typical values* | Units |
|--------------------------------|----------------|------------|-----------------|-------------------|
| Rheology | | | | |
| Melt Flow Rate | 190 °C/2.16 kg | ISO 1133-1 | 4 | g/10 min |
| Physical | | | | |
| Density | | ISO 1183 | 0.955 | g/cm ³ |
| Mechanical | | | | |
| Tensile Stress at Yield | | ISO 527-1 | 27 | MPa |
| Elongation at Break | | ISO 527-1 | 1000 | % |
| Flexural Modulus | | ISO 178 | 1200 | MPa |
| Impact | | | | |
| ESCR | F50, 100% | ASTM D1693 | >40 | hours |
| Charpy Notched Impact Strength | | ISO 179 | 8 | kJ/m ² |
| Thermal | | | | |
| Vicat Softening Temperature | 10 N | ISO 306 | 121 | °C |

*The values given are typical values measured on the product. These values should not be considered as specification.

REACH Statement

Polymers are exempt of REACH registration. However, their raw materials which mean monomers and relevant additives have been registered.

PJSC «Sibur Holding» (and its subsidiaries) is committed to fully respect REACH legislation and to use only REACH compliant raw materials.

Safety

See MSDS

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