

SIBUR

Technical Data Sheet PE HD45552 IM High-Density Polyethylene

PRODUCT DESCRIPTION

PE HD45552 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 HD45552 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	4,5	g/10 min
Physical				
Density		ISO 1183	0.953	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	119	°C

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