

SIBUR

Technical Data Sheet PE HD85612 IM High-Density Polyethylene

PRODUCT DESCRIPTION

PE HD85612 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 physical and mechanical characteristics. Articles produced from this grade show high rigidity, good impact strength and a glossy surface finish.

TYPICAL APPLICATIONS

PE HD85612 IM is recommended for Injection Molding applications such as crates, recycle bins, hardhats and general purpose items.

Properties	Conditions	Method	Typical values*	Units
Rheology				
Melt Flow Rate	190 °C/2.16 kg	ISO 1133-1	8.5	g/10 min
Physical				
Density		ISO 1183	0.961	g/cm ³
Mechanical				
Tensile Stress at Yield		ISO 527-1	32	MPa
Elongation at Break		ISO 527-1	1100	%
Flexural Modulus		ISO 178	1500	MPa
Impact				
ESCR	F50, 100%	ASTM D1693	50	hours
Notched Izod Impact Strength	23 °C	ASTM D256	3,5	kJ/m ²
Thermal				
Vicat Softening Temperature	10 N	ISO 306	127	°C

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