

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	7.5	g/10 min
Physical				
Density		ISO 1183	0.960	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.

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.

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