

Technical Data Sheet



Polyethylene HDPE-150

High Density Polyethylene
LyondellBasell Industries
Distribution

Product Description

HDPE-150 are use in a broad range of specialty applications. HDPE-150 powders combine the unique properties of a polyolefin resin with a small particle size.

General

Material Status	• Commercial: Active
Availability	• North America
Uses	• Automotive Applications • Industrial Applications • Color Concentrates • Structural Parts
Appearance	• Natural Color
Forms	• Powder

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.952 g/cm ³	0.952 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10 g/10 min	10 g/10 min	ASTM D1238
Mean Particle Size ¹	115 Micron	115 Micron	
Moisture Content ¹	< 0.10 %	< 0.10 %	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	1700 psi	11.7 MPa	ASTM D638
Tensile Elongation (Break)	400 %	400 %	ASTM D638
Flexural Modulus	160000 psi	1100 MPa	ASTM D790
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	66	66	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	< -105 °F	< -76.1 °C	ASTM D746
Vicat Softening Temperature	257 °F	125 °C	ASTM D1525
Peak Melting Temperature	273 °F	134 °C	ASTM D3418

Notes

¹ LYB Method

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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