

ExxonMobil LDPE

LD 653 series

Injection Molding Resin

Description

LD 653 series are medium flow LDPE grade, characterized by high stiffness and good toughness.

Applications

- tough medium sized moldings
- caps
- bottle closures
- toys
- houseware

Additive Package	Antiblock	Slip	Thermal Stabilizer
LD 653	No	No	No
LD 653CE	No	525 ppm	No

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index	ASTM D1238	22 g/10 min	
Density	ASTM D4703 / D1505	0.9235 g/cm ³	
Peak Melting Temperature	ASTM D3418	109 °C	228 °F
Crystallization Point	ASTM D3418	94 °C	201 °F
Vicat Softening Point	ISO 306-A50	91 °C	196 °F

Molded Properties

Tensile Strength	ISO 527-2/1A/50	9 MPa	1300 psi
Elongation @ Break	ISO 527-2/1A/50	120 %	
E-Modulus (0.05-0.25 %)	ISO 527-2/1A/1	200 MPa	29000 psi
Shore Hardness - D (15 sec)	ISO 868	44	

The molded properties have been measured on 4 mm (157.5 mil) thick injection molded specimen, based on ISO 1872-2.

LD 653 series can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

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