

ExxonMobil LDPE

LD 650

Injection Molding Resin

Description

LD 650 is a high, easy flowing LDPE grade, characterized by medium stiffness and excellent toughness.

Because of its high melt-index , it is used for the injection molding of complex articles or for items produced at short cycle times.

Applications

- toys
- housewares
- lids and closures for containers

Additive Package	Antiblock	Slip	Thermal Stabilizer
LD 650	No	No	No

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index	ASTM D1238	22 g/10 min	
Density	ASTM D4703 / D1505	0.914 g/cm ³	
Peak Melting Temperature	ASTM D3418	103 °C	217 °F
Crystallization Point	ASTM D3418	88 °C	190 °F
Vicat Softening Point	ISO 306-A50	81 °C	178 °F

Molded Properties

Tensile Strength	ISO 527-2/1A/50	8 MPa	1200 psi
Elongation @ Break	ISO 527-2/1A/50	120 %	
E-Modulus (0.05-0.25 %)	ISO 527-2/1A/1	120 MPa	17500 psi
Shore Hardness - D (15 sec)	ISO 868	40	

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

LD 650 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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