

Generic LMDPE

Linear Medium Density Polyethylene

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic LMDPE
This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.934 to 0.938	g/cm ³	ASTM D792
23°C	0.934 to 0.940	g/cm ³	ISO 1183
--	0.914 to 0.959	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	3.9 to 6.1	g/10 min	ASTM D1238
190°C/2.16 kg	3.3 to 6.1	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (23°C)	27.9 to 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
23°C	60 to 65		ASTM D2240
23°C	55 to 57		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	646 to 758	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	17.9 to 20.0	MPa	ASTM D638
Yield, 23°C	18.0 to 22.0	MPa	ISO 527-2
Tensile Strain			
Yield, 23°C	11 to 12	%	ISO 527-2
Break, 23°C	380 to 1000	%	ASTM D638
Break, 23°C	88 to 1000	%	ISO 527-2
Flexural Modulus			
23°C	556 to 862	MPa	ASTM D790
23°C	698 to 803	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20 to 26	µm	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	63.9 to 71.5	°C	ASTM D648
0.45 MPa, Unannealed	64.8 to 68.2	°C	ISO 75-2/B
Brittleness Temperature	-70.2 to -70.0	°C	ASTM D746

Vicat Softening Temperature	113 to 118	°C	ISO 306
Melting Temperature	126 to 128	°C	
Optical	Nominal Value	Unit	Test Method
Gloss	50 to 88		ASTM D2457
Haze	3.0 to 18	%	ASTM D1003

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