

Dow 620I Linear Low Density Polyethylene (LDPE)

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

Material Notes:

For extruded foam applications Complies with U.S. FDA 21 CFR 177.1520 (c) 2.1 Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-620I-Linear-Low-Density-Polyethylene-LDPE.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ASTM D792
ESCR 100% Igepal®	<= 1.0 hour @Temperature 50.0 °C	<= 1.0 hour @Temperature 122 °F	F ₅₀ ; Compression molded; ASTM D1693
Melt Index of Compound	1.85 g/10 min @Load 2.16 kg, Temperature 190 °C	1.85 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	46	46	Compression molded; ASTM D2240
Tensile Strength at Break	10.3 MPa	1500 psi	Compression molded; ASTM D638
Tensile Strength, Yield	10.3 MPa	1500 psi	Compression molded; ASTM D638
Elongation at Break	470 %	470 %	Compression molded; ASTM D638
Elongation at Yield	3.0 %	3.0 %	Compression molded; ASTM D638
Flexural Modulus	0.276 GPa	40.0 ksi	Compression molded; ASTM D790 B
Tensile Impact Strength	147 kJ/m ²	70.0 ft-lb/in ²	Compression molded; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	113 °C	235 °F	Dow Method (DSC)
Crystallization Temperature	100 °C	212 °F	Dow Method (DSC)
Deflection Temperature at 0.46 MPa (66 psi)	40.0 °C	104 °F	Compression molded; ASTM D648
Vicat Softening Point	98.9 °C	210 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	Compression molded; ASTM D746

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