Dow 621I Low Density Polyethylene (LDPE)

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE

Material Notes:

Specialty resin designed for high melt strength applications Provides excellent bubble stability 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-621I-Low-Density-Polyethylene-LDPE.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	2.3 g/10 min @Load 2.16 kg, Temperature 190 °C	2.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.64 MPa	1688 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.02 MPa	1598 psi	ASTM D882
Film Elongation at Break, MD	451 %	451 %	ASTM D882
Film Elongation at Break, TD	620 %	620 %	ASTM D882
Secant Modulus, MD	0.1662 GPa	24.11 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.2081 GPa	30.18 ksi	2% Secant; ASTM D882
Impact	43	43	[ft-lbf/in³]; Puncture Resistance; Dow Method
	1695	1695	[ft-lbf/in³]; Toughness MD; ASTM D882
	1790	1790	[ft-lbf/in³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	321 g	321 g	ASTM D1922
Elmendorf Tear Strength TD	189 g	189 g	ASTM D1922
Elmendorf Tear Strength, MD	6.319 g/micron	160.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	3.72 g/micron	94.5 g/mil	ASTM D1922
Dart Drop Test	96.0 g	0.212 lb	Method A; ASTM D1709

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	21.75 MPa	3155 psi	ASTM D882
Film Tensile Strength at Break, TD	19.62 MPa	2845 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	108 °C	226 °F	Dow Method (DSC)
Vicat Softening Point	92.0 °C	198 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	16.1 %	16.1 %	ASTM D1003
Gloss	40 %	40 %	45°; ASTM D2457

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