

Dow 662I Low Density Polyethylene Resin

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

Material Notes:

Blown Film Resin designed for enhanced bubble stability High melt strength Optimum gauge range: 1.5 - 5.0 mil 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-662I-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	0.47 g/10 min	0.47 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	13.30 MPa	1929 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.73 MPa	1556 psi	ASTM D882
Film Elongation at Break, MD	339 %	339 %	ASTM D882
Film Elongation at Break, TD	557 %	557 %	ASTM D882
Impact	50	50	[ft-lbf/in ³]; Puncture Resistance; Dow Method
	1543	1543	[ft-lbf/in ³]; Toughness MD; ASTM D882
	1922	1922	[ft-lbf/in ³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	131 g	131 g	ASTM D1922
Elmendorf Tear Strength TD	112 g	112 g	ASTM D1922
Elmendorf Tear Strength, MD	2.58 g/micron	65.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	2.20 g/micron	56.0 g/mil	ASTM D1922
Dart Drop Test	283 g	0.624 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	23.55 MPa	3416 psi	ASTM D882
Film Tensile Strength at Break, TD	24.1 MPa	3490 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	108 °C Metric	226 °F English	Dow Method (DSC) Comments
Vicat Softening Point	93.0 °C	199 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	26 %	26 %	ASTM D1003
Gloss	23 %	23 %	45°; ASTM D2457

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