

Dow 650I Low Density Polyethylene Resin

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

Material Notes:

DOW LDPE 650I Resin is intended for use in soft goods over wrap, bread bags, shrink films and other general purpose applications. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-650I-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.928 g/cc	0.0335 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	14.58 MPa	2115 psi	ASTM D882
Film Tensile Strength at Yield, TD	14.60 MPa	2118 psi	ASTM D882
Film Elongation at Break, MD	606 %	606 %	ASTM D882
Film Elongation at Break, TD	780 %	780 %	ASTM D882
Secant Modulus, MD	0.2470 GPa	35.82 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.2751 GPa	39.90 ksi	2% Secant; ASTM D882
Impact	32	32	[ft-lbf/in³]; Puncture Resistance; Dow Method
	2532	2532	[ft-lbf/in³]; Toughness MD; ASTM D882
	2640	2640	[ft-lbf/in³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	379 g	379 g	ASTM D1922
Elmendorf Tear Strength TD	449 g	449 g	ASTM D1922
Elmendorf Tear Strength, MD	7.461 g/micron	189.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	8.839 g/micron	224.5 g/mil	ASTM D1922
Dart Drop Test	89.0 g	0.196 lb	Method A; ASTM D1709

Film Tensile Strength at Break, MD Mechanical Properties	24.24 MPa Metric	3515 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	21.04 MPa	3051 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	7.2 %	7.2 %	ASTM D1003
Gloss	77 %	77 %	45°; ASTM D2457

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