

Dow DOWLEX™ 2247G Polyethylene Resin

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

Material Notes:

Next Generation DOWLEX™ 2247G Polyethylene Resin with Extra Stretch Performance (ESP) is an ethylene-octene-1 copolymer designated for cast stretch film applications, such as industrial pallet wrap. DOWLEX 2247G provides stretch films with superior extensibility and increased resistance to failure around film flaws while maintaining exceptional puncture resistance and load retention. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DOWLEX-2247G-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.917 g/cc	0.0331 lb/in ³	ASTM D792
Thickness	58.4 microns	2.30 mil	
Melt Flow	2.3 g/10 min	2.3 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.080 MPa	1317 psi	ASTM D882
Film Tensile Strength at Yield, TD	8.846 MPa	1283 psi	ASTM D882
Film Elongation at Break, MD	432 %	432 %	ASTM D882
Film Elongation at Break, TD	705 %	705 %	ASTM D882
Impact	321	321	[ft-lbf/in ³]; Puncture Resistance; Dow Method
	2060	2060	[ft-lbf/in ³]; Toughness MD; ASTM D882
	2653	2653	[ft-lbf/in ³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	295 g	295 g	ASTM D1922
Elmendorf Tear Strength TD	558 g	558 g	ASTM D1922
Elmendorf Tear Strength, MD	5.05 g/micron	128 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	9.55 g/micron	243 g/mil	ASTM D1922
Dart Drop Test	148 g	0.326 lb	Method B; ASTM D1709
Film Tensile Strength at Break, MD	50.11 MPa	7268 psi	ASTM D882
Film Tensile Strength at Break, TD	35.9 MPa	5210 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	123 °C	253 °F	Dow Method (DSC)
Vicat Softening Point	99.0 °C	210 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	0.80 %	0.80 %	ASTM D1003
Gloss	94.6 %	94.6 %	45°; ASTM D2457

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