

Dow DOWLEX™ 2047G Linear Low Density Polyethylene

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

Material Notes:

For high performance stretch film applications Complies with U.S. FDA 21 CFR 177.1520 (c) 3.1a Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DOWLEX-2047G-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.917 g/cc	0.0331 lb/in ³	ASTM D792
Thickness	20.3 microns	0.800 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	8.791 MPa	1275 psi	ASTM D882
Film Tensile Strength at Yield, TD	8.163 MPa	1184 psi	ASTM D882
Film Elongation at Break, MD	462 %	462 %	ASTM D882
Film Elongation at Break, TD	649 %	649 %	ASTM D882
Impact	267	267	[ft-lbf/in ³]; Puncture Resistance; Dow Method
	2061	2061	[ft-lbf/in ³]; Toughness TD; ASTM D882
	2125	2125	[ft-lbf/in ³]; Toughness MD; ASTM D882
Elmendorf Tear Strength MD	338 g	338 g	ASTM D1922
Elmendorf Tear Strength TD	507 g	507 g	ASTM D1922
Elmendorf Tear Strength, MD	16.63 g/micron	422.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	24.951 g/micron	633.75 g/mil	ASTM D1922
Dart Drop Test	208 g	0.459 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	50.10 MPa	7267 psi	ASTM D882
Film Tensile Strength at Break, TD	28.79 MPa	4176 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	122 °C	252 °F	Dow Method (DSC)

Thermal Properties	Metric	English	Comments
	98.0 °C	268 °F	ASTM D1695
Optical Properties	Metric	English	Comments
Haze	0.40 %	0.40 %	ASTM D1003
Gloss	95 %	95 %	45°; ASTM D2457

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