

Dow DOWLEX™ 2027G Linear Low Density Polyethylene

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

Material Notes:

For high speed, thin gauge applications Improved stiffness Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DOWLEX-2027G-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.941 g/cc	0.0340 lb/in ³	ASTM D792
Thickness	25.4 microns	1.00 mil	
Melt Flow	4.0 g/10 min	4.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	16.22 MPa	2352 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.76 MPa	1561 psi	ASTM D882
Film Elongation at Break, MD	575 %	575 %	ASTM D882
Film Elongation at Break, TD	740 %	740 %	ASTM D882
Impact	1365	1365	[ft-lbf/in³]; Toughness MD; ASTM D882
	1498	1498	[ft-lbf/in³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	34 g	34 g	ASTM D1922
Elmendorf Tear Strength TD	209 g	209 g	ASTM D1922
Elmendorf Tear Strength, MD	1.34 g/micron	34.0 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	8.23 g/micron	209 g/mil	ASTM D1922
Dart Drop Test	43.0 g	0.0948 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	39.03 MPa	5661 psi	ASTM D882
Film Tensile Strength at Break, TD	27.98 MPa	4058 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	127 °C	261 °F	Dow Method (DSC)
Vicat Softening Point	123 °C	253 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	4.1 %	4.1 %	ASTM D1003
Gloss	86 %	86 %	45°; ASTM D2457

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