

Dow DOWLEX™ 2077G Linear Low Density Polyethylene

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

Material Notes:

Fast processing on narrow die gaps 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-2077G-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.9215 g/cc	0.03329 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	0.85 g/10 min	0.85 g/10 min	ASTM D1238
Antiblock Level	2500 ppm	2500 ppm	
Slip Level	1200 ppm	1200 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.40 MPa	1509 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.55 MPa	1675 psi	ASTM D882
Film Elongation at Break, MD	615 %	615 %	ASTM D882
Film Elongation at Break, TD	718 %	718 %	ASTM D882
Secant Modulus, MD	0.1924 GPa	27.90 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.2275 GPa	33.00 ksi	2% Secant; ASTM D882
Impact	81	81	[ft-lbf/in³]; Puncture Resistance; Dow Method
	1164	1164	[ft-lbf/in³]; Toughness MD; ASTM D882
	1309	1309	[ft-lbf/in³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	840 g	840 g	ASTM D1922
Elmendorf Tear Strength TD	1309 g	1309 g	ASTM D1922
Elmendorf Tear Strength, MD	16.5 g/micron	420 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	25.77 g/micron	654.5 g/mil	ASTM D1922
Dart Drop Test	337 g	0.743 lb	Method A; ASTM D1709

Film Tensile Strength at Break, MD Mechanical Properties	34.89 MPa Metric	5061 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	33.42 MPa	4847 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	123 °C	253 °F	Dow Method (DSC)
Vicat Softening Point	104 °C	219 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ASTM D1003
Gloss	61 %	61 %	45°; ASTM D2457

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