

Dow DOWLEX™ 2071D Linear Low Density Polyethylene

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

Material Notes:

Good processability at 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-2071D-Linear-Low-Density-Polyethylene.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	0.85 g/10 min	0.85 g/10 min	ASTM D1238
Antiblock Level	3000 ppm	3000 ppm	
Slip Level	850 ppm	850 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	13.15 MPa	1907 psi	ASTM D882
Film Tensile Strength at Yield, TD	15.73 MPa	2281 psi	ASTM D882
Film Elongation at Break, MD	624 %	624 %	ASTM D882
Film Elongation at Break, TD	696 %	696 %	ASTM D882
Secant Modulus, MD	0.2682 GPa	38.90 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.34129 GPa	49.501 ksi	2% Secant; ASTM D882
Impact	48	48	[ft-lbf/in³]; Puncture Resistance; Dow Method
	1290	1290	[ft-lbf/in³]; Toughness MD; ASTM D882
	1410	1410	[ft-lbf/in³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	405 g	405 g	ASTM D1922
Elmendorf Tear Strength TD	1141 g	1141 g	ASTM D1922
Elmendorf Tear Strength, MD	7.972 g/micron	202.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	22.46 g/micron	570.5 g/mil	ASTM D1922
Dart Drop Test	281 g	0.620 lb	Method A; ASTM D1709

Film Tensile Strength at Break, MD Mechanical Properties	36.21 MPa Metric	5252 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	33.12 MPa	4804 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	122 °C	252 °F	Dow Method (DSC)
Vicat Softening Point	112 °C	234 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	15.1 %	15.1 %	ASTM D1003
Gloss	49.6 %	49.6 %	45°; ASTM D2457

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