

Dow DOWLEX™ 2038.68G Linear Low Density Polyethylene

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

Material Notes:

Fast processing on narrow die gaps For blown film paper product over wrap applications 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-203868G-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.935 g/cc	0.0338 lb/in ³	ASTM D792
Thickness	25.4 microns	1.00 mil	
Melt Flow	1.0 g/10 min	1.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	15.23 MPa	2209 psi	ASTM D882
Film Tensile Strength at Yield, TD	16.72 MPa	2425 psi	ASTM D882
Film Elongation at Break, MD	522 %	522 %	ASTM D882
Film Elongation at Break, TD	656 %	656 %	ASTM D882
Secant Modulus, MD	0.3773 GPa	54.73 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.3485 GPa	50.54 ksi	2% Secant; ASTM D882
Impact	93	93	[ft-lbf/in³]; Puncture Resistance; Dow Method
	1178	1178	[ft-lbf/in³]; Toughness MD; ASTM D882
	1389	1389	[ft-lbf/in³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	71 g	71 g	ASTM D1922
Elmendorf Tear Strength TD	413 g	413 g	ASTM D1922
Elmendorf Tear Strength, MD	2.80 g/micron	71.0 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	16.3 g/micron	413 g/mil	ASTM D1922
Dart Drop Test	112 g	0.247 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	38.34 MPa	5561 psi	ASTM D882
Film Tensile Strength at Break, TD	33.13 MPa	4805 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	126 °C	259 °F	Dow Method (DSC)
Vicat Softening Point	120 °C	248 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	58 %	58 %	45°; ASTM D2457

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