

Dow DOWLEX™ 2083G Linear Low Density Polyethylene

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

Material Notes:

Excellent tear strength, outstanding toughness 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-2083G-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.925 g/cc	0.0334 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	2.0 g/10 min	2.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.96 MPa	1589 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.44 MPa	1514 psi	ASTM D882
Film Elongation at Break, MD	669 %	669 %	ASTM D882
Film Elongation at Break, TD	787 %	787 %	ASTM D882
Impact	271	271	[ft-lbf/in³]; Puncture Resistance; Dow Method
	1575	1575	[ft-lbf/in³]; Toughness MD; ASTM D882
	1670	1670	[ft-lbf/in³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	650 g	650 g	ASTM D1922
Elmendorf Tear Strength TD	957 g	957 g	ASTM D1922
Elmendorf Tear Strength, MD	12.8 g/micron	325 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	18.84 g/micron	478.5 g/mil	ASTM D1922
Dart Drop Test	182 g	0.401 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	48.72 MPa	7066 psi	ASTM D882
Film Tensile Strength at Break, TD	40.40 MPa	5859 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	124 °C	255 °F	Dow Method (DSC)

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Haze	3.7 %	3.7 %	ASTM D1003
Gloss	90.5 %	90.5 %	45°; ASTM D2457

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China