Dow DOWLEX™ 2056G Linear Low Density Polyethylene

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

Material Notes:

Improved thermal stability 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-2056G-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in³	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	10.28 MPa	1491 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.03 MPa	1455 psi	ASTM D882
Film Elongation at Break, MD	547 %	547 %	ASTM D882
Film Elongation at Break, TD	654 %	654 %	ASTM D882
Secant Modulus, MD	0.1620 GPa	23.50 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.1955 GPa	28.35 ksi	2% Secant; ASTM D882
Impact	234	234	[ft-lbf/in³]; Puncture Resistance; Dow Method
	1198	1198	[ft-lbf/in³]; Toughness TD; ASTM D882
	1302	1302	[ft-lbf/in³]; Toughness MD; ASTM D882
Elmendorf Tear Strength MD	438 g	438 g	ASTM D1922
Elmendorf Tear Strength TD	690 g	690 g	ASTM D1922
Elmendorf Tear Strength, MD	17.2 g/micron	438 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	27.2 g/micron	690 g/mil	ASTM D1922
Dart Drop Test	232 g	0.512 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	50.34 MPa	7301 psi	ASTM D882
Film Tensile Strength at Break, TD	36.02 MPa	5224 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	121 °C	250 °F	Dow Method (DSC)
Vicat Softening Point	106 °C	223 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	ASTM D1003
Gloss	70 %	70 %	45°; ASTM D2457

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