Dow DOWLEX™ 2078G Linear Low Density Polyethylene

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

Material Notes:

Good processability at narrow die gaps High strength in food 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-2078G-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in³	ASTM D792
Thickness	20.3 microns	0.800 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	10.31 MPa	1496 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.16 MPa	1619 psi	ASTM D882
Film Elongation at Break, MD	466 %	466 %	ASTM D882
Film Elongation at Break, TD	656 %	656 %	ASTM D882
Secant Modulus, MD	0.1806 GPa	26.20 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.2034 GPa	29.50 ksi	2% Secant; ASTM D882
Impact	175	175	[ft-lbf/in³]; Puncture Resistance; Dow Method
	973	973	[ft-lbf/in³]; Toughness MD; ASTM D882
	1154	1154	[ft-lbf/in³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	225 g	225 g	ASTM D1922
Elmendorf Tear Strength TD	614 g	614 g	ASTM D1922
Elmendorf Tear Strength, MD	11.073 g/micron	281.25 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	30.22 g/micron	767.5 g/mil	ASTM D1922
Dart Drop Test	163 g	0.359 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	39.41 MPa	5716 psi	ASTM D882
Film Tensile Strength at Break, TD	31.0 MPa	4490 psi	ASTM D882

Mechanical Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
Melting Point	122 °C	252 °F	Dow Method (DSC)
Vicat Softening Point	104 °C	219 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ASTM D1003
Gloss	58 %	58 %	45°; ASTM D2457

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