

Dow 608A Low Density Polyethylene (LDPE)

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

Material Notes:

A formulated clarity film resin for thin gauge optical packaging Optimum gauge range: 0.8 - 2.5 mil Complies with U.S. FDA 21 CFR

177.1520 (c) 2.1 Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-608A-Low-Density-Polyethylene-LDPE.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	2.6 g/10 min	2.6 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	12.46 MPa	1807 psi	ASTM D882
Film Tensile Strength at Yield, TD	12.67 MPa	1837 psi	ASTM D882
Film Elongation at Break, MD	584 %	584 %	ASTM D882
Film Elongation at Break, TD	778 %	778 %	ASTM D882
Impact	42	42	[ft-lbf/in ³]; Puncture Resistance; Dow Method
	2243	2243	[ft-lbf/in ³]; Toughness MD; ASTM D882
	2499	2499	[ft-lbf/in ³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	447 g	447 g	ASTM D1922
Elmendorf Tear Strength TD	433 g	433 g	ASTM D1922
Elmendorf Tear Strength, MD	8.799 g/micron	223.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	8.524 g/micron	216.5 g/mil	ASTM D1922
Dart Drop Test	87.0 g	0.192 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	23.41 MPa	3396 psi	ASTM D882
Film Tensile Strength at Break, TD	20.58 MPa	2985 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	113 °C Metric	235 °F English	Dow Method (DSC) Comments
Vicat Softening Point	97.0 °C	207 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	5.7 %	5.7 %	ASTM D1003
Gloss	81 %	81 %	45°; ASTM D2457

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