

Dow 611A Low Density Polyethylene (LDPE)

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

Material Notes:

A shrink film resin with good optics packaging applications Optimum gauge range: 1.0 - 3.0 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-611A-Low-Density-Polyethylene-LDPE.php

Physical Properties	Metric	English	Comments
Density	0.9239 g/cc	0.03338 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	0.88 g/10 min	0.88 g/10 min	ASTM D1238
Antiblock Level	1245 ppm	1245 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.8 MPa	1710 psi	ASTM D882
Film Tensile Strength at Yield, TD	12.22 MPa	1773 psi	ASTM D882
Film Elongation at Break, MD	370 %	370 %	ASTM D882
Film Elongation at Break, TD	557 %	557 %	ASTM D882
Secant Modulus, MD	0.2011 GPa	29.17 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.22661 GPa	32.868 ksi	2% Secant; ASTM D882
Impact	780	780	[ft-lbf/in³]; Toughness MD; ASTM D882
	808	808	[ft-lbf/in³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	400 g	400 g	ASTM D1922
Elmendorf Tear Strength TD	449 g	449 g	ASTM D1922
Elmendorf Tear Strength, MD	7.87 g/micron	200 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	8.839 g/micron	224.5 g/mil	ASTM D1922
Dart Drop Test	115 g	0.254 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	21.56 MPa	3127 psi	ASTM D882
Film Tensile Strength at Break, TD	16.87 MPa	2447 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	112 °C	234 °F	Dow Method (DSC)
Vicat Softening Point	97.0 °C	207 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	76 %	76 %	45°; ASTM D2457

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