

Dow 751A Low Density Polyethylene Resin

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

Material Notes:

A high additive film resin for general packaging applications For cast film extrusion A fast blooming resin for high speed bag conversion

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-751A-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.9245 g/cc	0.03340 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	6.4 g/10 min	6.4 g/10 min	ASTM D1238
Antiblock Level	2900 ppm	2900 ppm	
Slip Level	2640 ppm	2640 ppm	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	13.85 MPa	2009 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.42 MPa	1656 psi	ASTM D882
Film Elongation at Break, MD	146 %	146 %	ASTM D882
Film Elongation at Break, TD	441 %	441 %	ASTM D882
Impact	11	11	[ft-lbf/in ³]; Puncture Resistance; Dow Method
	951	951	[ft-lbf/in ³]; Toughness MD; ASTM D882
	1141	1141	[ft-lbf/in ³]; Toughness TD; ASTM D882
Elmendorf Tear Strength MD	203 g	203 g	ASTM D1922
Elmendorf Tear Strength TD	102 g	102 g	ASTM D1922
Elmendorf Tear Strength, MD	3.996 g/micron	101.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	2.01 g/micron	51.0 g/mil	ASTM D1922
Dart Drop Test	25.0 g	0.0551 lb	Method A; ASTM D1709
Film Tensile Strength at Break, MD	32.4 MPa	4700 psi	ASTM D882
Film Tensile Strength at Break, TD	12.76 MPa	1851 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	113 °C	235 °F	Dow Method (DSC)
Vicat Softening Point	96.0 °C	205 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	4.4 %	4.4 %	ASTM D1003
Gloss	80 %	80 %	45°; ASTM D2457

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