

Dow INSPIRE™ D118.01 Developmental Performance Polymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

D118.01 Developmental Performance Polymer is a propylene-based resin intended for use in film and sheet extrusion. Film and sheet produced from this resin offer improved stiffness, heat resistance, machinability, and toughness over competitive cast polypropylene films. Coextruded structures offer a broad range of potentially improved properties including high stiffness, good clarity and barrier properties. It has high film stiffness/ machinability, high heat resistance, excellent processability, and it complies with U.S. FDA 21 CFR 177.1520(c)

1.1 Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-INSPIRE-D11801-Developmental-Performance-Polymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D792
Melt Flow	8.0 g/10 min	8.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	31.46 MPa	4563 psi	ASTM D882
Film Tensile Strength at Yield, TD	30.40 MPa	4409 psi	ASTM D882
Film Elongation at Break, MD	527 %	527 %	ASTM D882
Film Elongation at Break, TD	6.0 %	6.0 %	ASTM D882
Tensile Modulus	1.06 GPa	154 ksi	CD, 2% Secant; ASTM D882
	1.07 GPa	155 ksi	MD, 2% Secant; ASTM D882
Film Tensile Strength at Break, MD	55.49 MPa	8048 psi	ASTM D882
Film Tensile Strength at Break, TD	30.40 MPa	4409 psi	ASTM D882

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