Dow 118.01 Developmental Performance Polypropylene Polymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Extrusion Grade , Polypropylene, Film Grade , Polypropylene, Molded , Polypropylene, Sheet/Thermoforming Grade

Material Notes:

D118.01 Developmental Performance Polymer is a propylene-based resin intended for use in film, sheet extrusion and injection molding applications. 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.Excellent balance of clarity and stiffnessSuperior stiffness and heat resistance over conventional polypropylenesSuggested for use in cast film applications requiring improved stiffness, barrier or heat resistanceSuggested for use in injection molded articles requiring stiffness of a 20% mineral filled PPComplies with U.S. FDA 21 CFR 177.1520(c) 1.1a, Europe EU-Directive 2002/72/ECDow Announced Sale of Global Polypropylene Business to Braskem in July 2011.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dow-11801-Developmental-Performance-Polypropylene-Polymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in³	ASTM D792
Thickness	25.4 microns	1.00 mil	Film Thickness
Melt Index of Compound	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	31.5 MPa	4570 psi	25.4 microns; ASTM D882
Film Tensile Strength at Yield, TD	30.4 MPa	4410 psi	25.4 microns; ASTM D882
Tensile Strength, Yield	42.1 MPa	6110 psi	ASTM D638
Film Elongation at Break, MD	530 %	530 %	25.4 microns; ASTM D882
Film Elongation at Break, TD	6.0 %	6.0 %	25.4 microns; ASTM D882
Flexural Modulus, 1% Secant	2280 MPa	331000 psi	ASTM D790A
Secant Modulus, MD	1.07 GPa	155 ksi	2% secant modulus; ASTM D882
Secant Modulus, TD	1.06 GPa	154 ksi	2% secant modulus; ASTM D882
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	ASTM D256A
Film Tensile Strength at Break, MD	55.5 MPa	8050 psi	25.4 microns; ASTM D882
Film Tensile Strength at Break, TD	30.4 MPa	4410 psi	25.4 microns; ASTM D882

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	129 °C	264 °F	Unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Haze	21 %	21 %	1000 microns; ASTM D1003

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