

Dow DX5E66 Polypropylene Homopolymer Resin

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Film Grade

Material Notes:

Overview Consistent processability Very high cleanliness Good optical properties Complies with U.S. FDA 21 CFR 177.1520 (c)1.1a, EU-Directive 2002/72/EC, Canadian HPFB No Objection DX5E66 Developmental Polypropylene Resin is intended for use in cast film processes. Dow Announced Sale of Global Polypropylene Business to Braskem in July 2011.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DX5E66-Polypropylene-Homopolymer-Resin.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D792
Thickness	50.8 microns	2.00 mil	Film Thickness
Melt Index of Compound	8.7 g/10 min @Load 2.16 kg, Temperature 230 °C	8.7 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	102	102	ASTM D785
Film Tensile Strength at Yield, MD	21.6 MPa	3130 psi	ASTM D882
Film Tensile Strength at Yield, TD	15.7 MPa	2280 psi	ASTM D882
Tensile Strength, Yield	33.0 MPa	4790 psi	ASTM D638
Film Elongation at Break, MD	690 %	690 %	ASTM D882
Film Elongation at Break, TD	750 %	750 %	ASTM D882
Elongation at Yield	8.0 %	8.0 %	ASTM D638
Flexural Modulus, 1% Secant	1380 MPa	200000 psi	ASTM D790A
Secant Modulus, MD	0.719 GPa	104 ksi	2% secant modulus; ASTM D882
Secant Modulus, TD	0.693 GPa	101 ksi	2% secant modulus; ASTM D882
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	ASTM D256A
Elmendorf Tear Strength MD	64 g	64 g	ASTM D1922
Elmendorf Tear Strength TD	88 g	88 g	ASTM D1922
Dart Drop Test	<= 100 g	<= 0.221 lb	Film; 50.8 microns; ASTM D1709B
	110 g	0.243 lb	Film; 50.8 microns; ASTM D1709A

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	50.3 MPa	7300 psi	ASTM D882
Film Tensile Strength at Break, TD	45.1 MPa	6540 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	161 °C	322 °F	DSC; Dow Method
Deflection Temperature at 0.46 MPa (66 psi)	104 °C	219 °F	Unannealed; ASTM D648
Vicat Softening Point	155 °C	311 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	0.22 %	0.22 %	50.8 microns; ASTM D1003
Gloss	95 %	95 %	ASTM D2457, 45°, 50.8 microns
	145 %	145 %	ASTM D2457, 20°, 50.8 microns

Descriptive Properties	Value	Comments
Film Puncture Resistance (J/cm3)	9.76	Dow Method; 50.8 microns
Film Toughness (J/cm3)	344	TD: 50.8 microns; ASTM D882
	353	MD: 50.8 microns; ASTM D882

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