

Dow 500.00 Developmental Performance Polypropylene Polymer

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

Material Notes:

D 500.00 Developmental Performance Polymer is a performance plastic designed for cut sheet thermoforming. The propylene-based polymer offers improved formability in large part thermoforming applications. Main Characteristics: Melt strength specifically suited to the thermoforming process, Improved sheet sag / drape performance, Low temperature toughness, High chemical resistance, Better regrind capability without significant loss of properties. 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-50000-Developmental-Performance-Polypropylene-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Melt Index of Compound	0.45 g/10 min @Load 2.16 kg, Temperature 230 °C	0.45 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	19.3 MPa	2800 psi	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Modulus	2.00 GPa	290 ksi	Tangent; ASTM D790A
Izod Impact, Notched	1.07 J/cm @Temperature -18.0 °C	2.00 ft-lb/in @Temperature -0.400 °F	ASTM D256
	5.87 J/cm @Temperature 23.0 °C	11.0 ft-lb/in @Temperature 73.4 °F	ASTM D256
Dart Drop, Total Energy	21.0 J @Temperature 23.0 °C	15.5 ft-lb @Temperature 73.4 °F	Peak Energy; ASTM D3763
	30.7 J @Temperature -18.0 °C	22.6 ft-lb @Temperature -0.400 °F	Peak Energy; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 µm/m-°C @Temperature -30.0 - 30.0 °C	22.2 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696

Deflection Temperature at 0.46 MPa (100 psi) Thermal Properties	110 °C Metric	230 °F English	Unannealed; ASTM D648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	58.3 °C	137 °F	Unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Gloss	>= 80 %	>= 80 %	ASTM D523; 60°, Thermoformed
	90 %	90 %	ASTM D523; 60°, Extruded Sheet

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