

Dow INSPIRE™ D500.00 Developmental Performance Polymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

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. It has 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. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-INSPIRE-D50000-Developmental-Performance-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Melt Flow	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 D882
Flexural Modulus	2.00 GPa	290 ksi	Tangent; ASTM D790A
Izod Impact, Notched	5.87 J/cm	11.0 ft-lb/in	ASTM D256
	1.07 J/cm @Temperature -18.0 °C	2.00 ft-lb/in @Temperature -0.400 °F	ASTM D256
Falling Dart Impact	21.0 J	15.5 ft-lb	@ 23°C, 3.4 m/s; ASTM D3763
	31.0 J	22.9 ft-lb	@ -18°C, 3.4 m/s; 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 (66 psi)	110 °C	230 °F	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	58.3 °C	137 °F	Unannealed; ASTM D648

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