

Dow INSPIRE™ D7000 Thermoplastic Polyolefin (discontinued **)

Category : Polymer , Thermoplastic , Polyolefin

Material Notes:

Information provided by DowThe Inspire brand was spun off from Dow Chemical to Styron in 2010, although this grade had previously been removed from Dow's standard product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-INSPIRE-D7000-Thermoplastic-Polyolefin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ASTM D792
Filler Content	24 %	24 %	ISO 3451
Melt Flow	28 g/10 min @Load 2.16 kg, Temperature 230 °C	28 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	ISO 868
Tensile Strength, Yield	22.2 MPa	3220 psi	ISO R527
Flexural Modulus	2.1060 GPa	305.45 ksi	ISO 178
Izod Impact, Notched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	NB; ISO 180/1A
	2.00 kJ/m ² @Temperature -40.0 °C	0.952 ft-lb/in ² @Temperature -40.0 °F	ISO 180/1A
	15.0 kJ/m ² @Temperature 10.0 °C	7.14 ft-lb/in ² @Temperature 50.0 °F	ISO 180/1A
Falling Dart Impact	34.0 J	25.1 ft-lb	@ 23°C, 6.7 m/s; ASTM D3763
	36.1 J	26.6 ft-lb	@ 0°C, 6.7 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	59.0 µm/m-°C @Temperature 20.0 °C	32.8 µin/in-°F @Temperature 68.0 °F	ASTM D228
Deflection Temperature at 0.46 MPa (66 psi)	117.0 °C	242.6 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	61.00 °C	141.8 °F	ISO 75

Thermal Properties	Metric	English	Comments
Flame Spread	79.0 mm/min	1.54 in/min	

Descriptive Properties	Value	Comments
Five Finger Scratch (N)	15	

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