

Styron INSPIRE™ TF1301 Thermoplastic Polyolefin

Category : Polymer , Thermoplastic , Polyolefin

Material Notes:

Information provided by DowThe Inspire brand was spun off from Dow Chemical to Styron in 2010

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-INSPIRE-TF1301-Thermoplastic-Polyolefin.php

Physical Properties	Metric	English	Comments
Density	0.965 g/cc	0.0349 lb/in ³	ASTM D792B; ISO 1183
Melt Flow	17 g/10 min	17 g/10 min	ASTM D1238; ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	16.2 MPa	2350 psi	ASTM D638; ISO 527-2
Elongation at Yield	10 %	10 %	ASTM D638; ISO 527-2
Flexural Modulus	0.862 GPa	125 ksi	ASTM D709A
Izod Impact, Notched	NB	NB	ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	unannealed; ASTM D648; ISO 75-2/B

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