

Styron INSPIRE™ TF7000 ES Natural Performance Polymer

Category : Polymer , Thermoplastic , TPO

Material Notes:

INSPIRE® TF7000 ES Natural Performance Polymer DA™ is a very high stiffness (2400 MPa) TPO designed for instrument panel upper and lower components, as well as other interior trim applications where stiffness, good impact resistance, and good molded-in-color part aesthetics are important. Its high melt flow rate also allows for rapid filling of large parts in the injection molding process. Main Characteristics: Excellent surface aesthetics Good scratch & mar resistance Instrument panel uppers/lowers Interior trim applications High flow Approved on DaimlerChrysler MS-DC265D. Information provided by Dow The 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-TF7000-ES-Natural-Performance-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in³	ASTM D792
Melt Flow	24 g/10 min @Load 2.16 kg, Temperature 230 °C	24 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	ASTM D2240
Tensile Strength, Yield	23.0 MPa	3340 psi	ISO 527-2/50
Flexural Modulus	2.399 GPa	348.0 ksi	2.0 mm/min; ISO 178
Izod Impact, Notched (ISO)	29.0 kJ/m²	13.8 ft-lb/in²	ISO 180/1A
Dart Drop, Total Energy	23.0 J @Temperature 23.0 °C	17.0 ft-lb @Temperature 73.4 °F	6.6 m/sec, Ductile; ASTM D3763
	29.0 J @Temperature 0.000 °C	21.4 ft-lb @Temperature 32.0 °F	6.6 m/sec, Ductile; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	107 °C	225 °F	Unannealed; ISO 75-2/Bf
Deflection Temperature at 1.8 MPa (264 psi)	61.1 °C	142 °F	Unannealed; ISO 75-2/Af
Flame Spread	48.0 mm/min	1.89 in/min	FMVSS302
	48.0 mm/min	1.89 in/min	FMVSS302

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China