

## Styron INSPIRE<sup>®</sup>,ç DTF8000 ES Compounded Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

Overview: INSPIRE<sup>®</sup>,ç TF 8000 ES is a superior scratch and mar resistant low gloss talc filled interior grad TPO exhibiting excellent low temperature ductility, high modulus and heat performance. Main Characteristics: Interior grade TPO Talc filled High modulus Low temperature ductility Scratch and mar resistant Molded in color and accent paint capable Information provided by Styron

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styron-INSPIRE-DTF8000-ES-Compounded-Polypropylene.php](http://www.lookpolymers.com/polymer_Styron-INSPIRE-DTF8000-ES-Compounded-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in <sup>3</sup>	ASTM D792
Melt Flow	12 g/10 min	12 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 Â°C	@Load 4.76 lb, Temperature 446 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.8 MPa	3600 psi	ISO 527-2/50
Flexural Modulus	2.22 GPa	322 ksi	2.0 mm/min; ISO 178
Izod Impact, Notched (ISO)	3.80 kJ/m <sup>2</sup>	1.81 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Dart Drop, Total Energy	28.0 kJ/m <sup>2</sup>	13.3 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Dart Drop, Total Energy	21.6 J	15.9 ft-lb	6.7 m/sec, Fully Ductile; ASTM D3763
	@Thickness 3.20 mm, Temperature 23.0 Â°C	@Thickness 0.126 in, Temperature 73.4 Â°F	
Dart Drop, Total Energy	28.4 J	20.9 ft-lb	6.7 m/sec, Fully Ductile; ASTM D3763
	@Thickness 3.20 mm, Temperature 0.000 Â°C	@Thickness 0.126 in, Temperature 32.0 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	113 Â°C	235 Â°F	Unannealed; ISO 75-2/Bf
Flame Spread	30.0 mm/min	1.18 in/min	Average Extent of Burring; ISO 3795

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments <b>10-13</b>
Scratch Resistance - Instrumented	26 N	Textured, ASTM D7027-05
	31 N	Smooth, 'ASTM D7027-05

## Contact Songhan Plastic Technology Co.,Ltd.

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