

## Styron INSPIRE<sup>®</sup>,ç TF0808S(U) Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

TF0808S(U) is a talc filled PP exhibiting high impact resistance and a high stiffness. It is particularly well suited for low wall thickness bumper skins. INSPIRE TF0808S for painted parts INSPIRE TF0808SU for unpainted parts with a UV stabilization package 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-TF0808SU-Polypropylene.php](http://www.lookpolymers.com/polymer_Styron-INSPIRE-TF0808SU-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in <sup>3</sup>	ISO 1183B
Filler Content	5 %	5 %	Talc
Linear Mold Shrinkage	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ISO 294-4
Melt Flow	16.5 g/10 min @Load 2.16 kg, Temperature 230 °C	16.5 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.0 MPa	2900 psi	50mm/min; ISO 527
Elongation at Yield	>= 400 %	>= 400 %	ISO 527
Tensile Modulus	1.20 GPa	174 ksi	1 mm/min; ISO 527
Flexural Modulus	1.30 GPa	189 ksi	3 points and 2 mm/min; ISO 178
Izod Impact, Notched (ISO)	42.0 kJ/m <sup>2</sup>	20.0 ft-lb/in <sup>2</sup>	ISO 180/1A
	4.00 kJ/m <sup>2</sup> @Temperature -40.0 °C	1.90 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	ISO 180/1A
Charpy Impact, Notched	4.50 J/cm <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	ISO 179-1/1eA
	0.400 J/cm <sup>2</sup> @Temperature -40.0 °C	1.90 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	ISO 179-1/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	35.0 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	DIN 53752

Thermal Properties	Metric °C	English °F	Comments
	@Temperature 25.0 - 80.0 °C	@Temperature 77.0 - 176 °F	DIN 53752
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	Unannealed; ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	Unannealed; ISO 75
Vicat Softening Point	125 °C	257 °F	9.8N / 120°C / h; ISO 306 A
Shrinkage	1.0 - 2.0 %	1.0 - 2.0 %	ISO 294-4

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 260 °C	374 - 500 °F	
Mold Temperature	20.0 - 60.0 °C	68.0 - 140 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	2 hour	2 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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