

## Styrolution PS 156F GPPS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

### Material Notes:

Styrolution PS 156F is a general purpose polystyrene grade with excellent flow properties, high heat resistance and is zinc stearate free. Free of internal lubricants. High heat resistance. Excellent flow properties. Information provided by Styrolution

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styrolution-PS-156F-GPPS.php](http://www.lookpolymers.com/polymer_Styrolution-PS-156F-GPPS.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	<= 0.10 % @Temperature 23.0 Â°C	<= 0.10 % @Temperature 73.4 Â°F	50% RH; ISO 62
Water Absorption at Saturation	<= 0.10 % @Temperature 23.0 Â°C	<= 0.10 % @Temperature 73.4 Â°F	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294-4
Melt Flow	28 g/10 min @Load 5.00 kg, Temperature 200 Â°C	28 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	150 MPa	21800 psi	ISO 2039-1
Tensile Strength, Yield	40.0 MPa	5800 psi	ISO 527
Elongation at Break	1.5 %	1.5 %	ISO 527
Tensile Modulus	3.20 GPa	464 ksi	ISO 527
Flexural Strength	50.0 MPa	7250 psi	ISO 178
Charpy Impact Unnotched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359
Thermal Conductivity	0.160 W/m-K	1.11 BTU-in/hr-ft <sup>2</sup> - Â°F	DIN 52612-1
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	ISO 75

Thermal Properties	Metric	English	Comments
Heat Softening Point	@Load 5.10 kg	@Load 11.2 lb	120A °C/A, ASTM D 1525

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{18}$ ohm-cm	$\geq 1.00 \times 10^{18}$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00 \times 10^{13}$ ohm	$\geq 1.00 \times 10^{13}$ ohm	IEC 60093

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 280 Å°C	356 - 536 Å°F	ISO 294

## 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