

## Styrolution PS 116 N/L GPPS

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

### Material Notes:

Styrolution PS 116N/L is a general purpose polystyrene grade with excellent flow properties and improved heat resistance. Excellent flow properties High heat resistance Information provided by Styrolution

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styrolution-PS-116-NL-GPPS.php](http://www.lookpolymers.com/polymer_Styrolution-PS-116-NL-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	23 g/10 min @Load 5.00 kg, Temperature 200 Â°C	23 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 Yield	1.5 %	1.5 %	ISO 527
Tensile Modulus	3.10 GPa	450 ksi	ISO 527
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Charpy Impact Unnotched	0.900 J/cm <sup>2</sup>	4.28 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)	75.0 Â°C	167 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