

## Styrolution PS 5600/5601 HIPS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

### Material Notes:

Fine balance of toughness and rigidity  
Good processability  
USP Class VI certified  
UL Classification 94 HB  
Information provided by Styrolution

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styrolution-PS-56005601-HIPS.php](http://www.lookpolymers.com/polymer_Styrolution-PS-56005601-HIPS.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	ASTM D 792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D 955
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 200 °C	8.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	55	55	ASTM D 785
Tensile Strength, Yield	22.3 MPa	3240 psi	ASTM D 638
Elongation at Break	50 %	50 %	ASTM D 638
Tensile Modulus	1.86 GPa	270 ksi	ASTM D 638
Flexural Strength	39.7 MPa	5760 psi	ASTM D 790
Flexural Modulus	1.86 GPa	270 ksi	ASTM D 790
Izod Impact, Notched	1.49 J/cm	2.80 ft-lb/in	ASTM D 638

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D 696
Vicat Softening Point	97.8 °C @Load 1.02 kg	208 °F @Load 2.25 lb	120°C/h; ASTM D 1525
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Gloss	45 %	45 %	Specular Gloss, 60°; ASTM D 523

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.5 @Thickness 1.00 mm, Frequency 1.00e+6 Hz	2.5 @Thickness 0.0394 in, Frequency 1.00e+6 Hz	ASTM D 150
Dielectric Strength	15.7 kV/mm	400 kV/in	ASTM D 696

## 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