

## Styrolution PS 6210/6211 HIPS

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

### Material Notes:

Great balance of rigidity and toughness  
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-62106211-HIPS.php](http://www.lookpolymers.com/polymer_Styrolution-PS-62106211-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	2.9 g/10 min @Load 5.00 kg, Temperature 200 °C	2.9 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	50	50	ASTM D 785
Tensile Strength, Yield	23.4 MPa	3400 psi	ASTM D 638
Elongation at Break	45 %	45 %	ASTM D 638
Tensile Modulus	2.00 GPa	290 ksi	ASTM D 638
Flexural Strength	48.3 MPa	7000 psi	ASTM D 790
Flexural Modulus	2.00 GPa	290 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	101 °C @Load 1.02 kg	214 °F @Load 2.25 lb	120°C/h; ASTM D 1525

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

Electrical Properties	Metric	English	Comments
	2.5	2.5	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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