

## SABIC PS 325 High Impact Polystyrene for Injection Molding

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

### Material Notes:

**Product Description:** High Impact Polystyrene PS 325 is manufactured by continuous mass polymerization of styrene monomer. An elastomer is incorporated during polymerization to achieve impact resistance. It is generally opaque in color. It has medium flow characteristics with high tensile and flexural strength with medium heat deflection and Vicat temperatures. **Typical Applications:** PS 325 has been designed for the injection molding of appliance parts, toys, furniture parts, containers, blow molded parts and structural foam applications. Information provided by SABIC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-PS-325-High-Impact-Polystyrene-for-Injection-Molding.php](http://www.lookpolymers.com/polymer_SABIC-PS-325-High-Impact-Polystyrene-for-Injection-Molding.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in <sup>3</sup>	ASTM D1895B
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	Load Density; ASTM D792
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	60	60	ASTM D785
Hardness, Rockwell M	10	10	ASTM D785
Tensile Strength at Break	22.0 MPa	3190 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Tensile Modulus	2.157 GPa	312.8 ksi	ASTM D638
Flexural Strength	35.0 MPa	5080 psi	ASTM D790
Flexural Modulus	2.353 GPa	341.3 ksi	ASTM D790
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.0 °C	199 °F	ASTM D648
Vicat Softening Point	95.0 °C @Load 1.00 kg	203 °F @Load 2.20 lb	ASTM D1525B
	HB	HB	

Thermal Properties		Metric	English	Comments
		@ Thickness 1.30 mm	@ Thickness 0.0512 in	
		HB	HB	
		@Thickness 3.00 mm	@Thickness 0.118 in	

**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