

SABIC PS 100 General Purpose Polystyrene for Injection Molding

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Transparent Grade

Material Notes:

Product Description: General purpose Polystyrene PS 100 is manufactured by continuous mass polymerization of styrene monomer. It is a crystal-like, hard and brittle polymer with good flow properties and high clarity. It is designed for medium and thin wall thickness articles and gives a broad processing window for molding applications. **Typical Applications:** It is recommended for the manufacture of packaging items such as plastic boxes and typical applications include cutlery, tumblers, office stationary items, jewelry boxes, medical supplies or any clear injection molded items. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-PS-100-General-Purpose-Polystyrene-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in ³	ASTM D1895B
Density	1.05 g/cc	0.0379 lb/in ³	Load Density; ASTM D792
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 230 °C	14 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	94	94	ASTM D785
Hardness, Rockwell M	64	64	ASTM D785
Tensile Strength at Break	40.0 MPa	5800 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	2.254 GPa	326.9 ksi	ASTM D638
Flexural Strength	72.0 MPa	10400 psi	ASTM D790
Flexural Modulus	3.529 GPa	511.8 ksi	ASTM D790
Izod Impact, Notched	0.120 J/cm	0.225 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	87.0 °C	189 °F	ASTM D648
Vicat Softening Point	92.0 °C @Load 1.00 kg	198 °F @Load 2.20 lb	ASTM D1525
	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	

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