

SABIC PS 126 General Purpose Polystyrene for Injection Molding

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

Material Notes:

Product Description: General purpose Polystyrene PS 125 is manufactured by continuous mass polymerization of styrene monomer. It is a crystal-like, hard and brittle polymer with medium flow and high clarity. It also has medium Vicat and heat deflection temperatures making it suitable for various applications. **Typical Applications:** It is recommended for the manufacture of packaging items, namely jewelry and gift boxes; medical supplies such as Petri dishes, test tubes holders and specimen jars. It can also be used in capping the high impact polystyrene coextruded sheet for higher surface gloss and can be blended with impact modifier resin for clear packaging articles. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-PS-126-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	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	95	95	ASTM D785
Hardness, Rockwell M	63	63	ASTM D785
Tensile Strength at Break	43.0 MPa	6240 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	2.598 GPa	376.8 ksi	ASTM D638
Flexural Strength	82.0 MPa	11900 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)	90.0 °C	194 °F	ASTM D648
Vicat Softening Point	95.0 °C @Load 1.00 kg	203 °F @Load 2.20 lb	ASTM D1525B

Thermal Properties Flammability, CA 94	HB Metric	HB English	Comments
	@Thickness 1.30 mm	@Thickness 0.0512 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

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