

#### **POLYMERS**

# SABIC® PS 125

General Purpose Polystyrene for Injection Molding

### **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 and makes it suitable for various applications.

### **Typical Applications**

It is recommended for 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.

#### **Processing Conditions**

Typical temperature (°C) profile for injection grade PS 125:

Throat	Feed	Transition	Metering	Die
Ambient	170	195	220	215

## Typical data

Properties	Unit	Value (1)	Test Method	
Melt Flow Rate @ 230°C & 2.16 kg Load Density @ 23°C Bulk Density (Method B)	g/10 min. kg/m3 kg/m3	7.0 1050 600	D-1238 D-792 D-1895	
Mechanical Properties(2)				
Tensile Strength Tensile Elongation Tensile Modulus Flexural Strength Flexural Modulus Izod Impact Notched @ 23°C Rockwell Hardness, L-Scale M-Scale	MPa % MPa MPa MPa J/m	43 2 2598 82 3529 12 95	D-638 D-638 D-638 D-790 D-790 D-256 D-785	
Thermal Properties				
Vicat Softening Point (Rate A, 1 Kg/50°C) Heat Deflection Temperature (Method B, 455 KPa, Annealed)	°C	98 93	D-1525 D-648	
Flammability Rating, UL 94  @ 1.3 mm and 3 mm (natural color)	Class	НВ	-	

- (1) Typical values; not to be construed as specification limits.
- (2) Based on Injection molded specimens.

#### **Food Regulation**

PS 125 is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

#### Storage and Handling

Polystyrene resin should be stored to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PS resin within 6 months after delivery.

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