

#### **POLYMERS**

# SABIC® PS 155

General Purpose Polystyrene for Foam Extrusion

## **Product Description**

General purpose Polystyrene PS 155 is manufactured by continuous mass polymerization of styrene monomer. It is a crystal-like, hard and brittle polymer with medium flow and good tensile and flexural strength. It has high vicat and heat deflection temperatures.

## **Typical Applications**

It is recommended for extrusion purposes. It can be used for foam extrusion application such as building insulation.

## **Processing Conditions**

Typical temperature (°C) profile for PS 155:

Throat	Feed	Transition	Metering	Die
Ambient	185	200	220	230

## Typical data

Properties	Unit	Value (1)	Test Method	
Melt Flow Rate @ 230°C & 2.16 kg Load Density @ 23°C Bulk Density (Method B)	J	1050	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 J/m	2990 66 3627 16	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	102 100	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 155 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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