

POLYMERS SABIC[®] PS 160

General Purpose Polystyrene for Foam Extrusion

Product Description

General purpose Polystyrene PS 160 is manufactured by continuous mass polymerization of styrene monomer. It is a crystal-like, hard and brittle material having High molecular weight imparting high tensile strength to end-products. It has high vicat and heat deflection temperatures.

Typical Applications

It is recommended for foam extrusion for egg cartons, clam-shell and for building insulation boards. It is also recommended for cookie and cake trays that requires good organoleptics properties and can also be used for oriented polystyrene packaging products, artificial timber and light diffusers.

Processing Conditions

Typical temperature (°C) profile for PS 160:

Throat	Feed	Transition	Metering	Die
Ambient	195	225	235	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)	g/10 min. kg/m3 kg/m3	3.3 1050 600	D-1238 D-792 D-1895
Mechanical Properties(2)	I	L	
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 -	51 2 2990 95 3627 20 92 58	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	°C	104	D-1525
(Method B, 455 KPa, Anneale Flammability Rating, UL 94 @ 1.3 mm and 3 mm (natural color)	ed) ^{°C} Class	100 НВ	D-648 -

(1) Typical values; not to be construed as specification limits.

(2) Based on Injection molded specimens.

Food Regulation

PS 160 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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