

Product Description

General purpose Polystyrene 585 is manufactured by continuous mass polymerization of styrene monomer. It is a crystal-like, hard and brittle polymer with high molecular weight and imparts high tensile strength to end products. It is specially developed for production of strong and tough extruded foam.

Typical Applications

It is recommended for manufacturing of egg cartons, clam shell, insulation boards, cookie and cake trays requiring better organoleptics. It is also suitable for producing oriented packaging products and recommended for artificial timbers and light diffusers.

Typical data

Properties	Unit	Value ⁽¹⁾	ASTM Method
Resin Properties			
Melt Flow Rate @ 200°C & 5 kg load	g/10 min.	2	D-1238
Density @ 23°C	kg/m ³	1050	D-792
Bulk Density (Method B)	kg/m ³	600	D-1895
Mechanical Properties ⁽²⁾			
Tensile Strength	MPa	51	D-638
Tensile Elongation	%	2.75	D-638
Tensile Modulus	MPa	3335	D-638
Flexural Strength	MPa	100	D-790
Flexural Modulus	MPa	3139	D-790
Thermal Properties ⁽²⁾			
Vicat Softening Point (Rate A, 1 Kg/50°C)	°C	108	D-1525
Heat Deflection Temperature (Method B, 1.8 MPa, Annealed)	°C	103	D-648

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

(2) Based on injection molded specimens.

Processing Conditions

Typical temperature (°C) profile for extrusion grade 585:

Throat	Feed	Transition	Metering	Die
Ambient	195	225	235	230

Food Regulation

585 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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