PS 330

High Impact Polystyrene for Sheet Extrusion

Product Description

High Impact Polystyrene PS 330 is manufactured by continuous mass polymerization of styrene monomer. An elastomer is incorporated during polymerization to achieve impact resistance property. It is generally opaque in color. It is a high impact strength polystyrene with high heat deflection temperature and good physical properties.

Typical Applications

It is primarily designed for extrusion and thermoforming applications. It can be used for food packaging and dairy products.

Typical data

Properties	Unit	Value [1]	ASTM Method
Resin Properties			
Melt Flow Rate @ 200°C & 5 kg load	g/10 min.	4.0	D-1238
Density @23°C	kg/m³	1040	D-792
Bulk Density (Method B)	kg/m³	600	D-1895
Mechanical Properties [2]			
Tensile Strength	MPa	29	D-638
Tensile Elongation	%	50	D-638
Tensile Modulus	MPa	2353	D-638
Flexural Strength	MPa	44	D-790
Flexural Modulus	MPa	2647	D-790
Izod Impact Notched @ 23°C	J/m	110	D-256
Rockwell Hardness, L-Scale M-Scale	-	67 10	D-785
Thermal Properties [2]			
Vicat Softening Point (Rate A, 1 Kg/50°C)	°C	99	D-1525
Heat Deflection Temperature (Method B, 455 KPa, Annealed)	°C	97	D-648
Flammability Rating, UL 94 @ 1.3 mm and 3 mm (natural color)	Class	HB	-

(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 PS 330:

Throat	Feed	Transition	Metering	Die
Ambient	185	195	205	215

Food Regulation

PS 330 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.