TECHNICAL DATASHEET

PS330



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.

APPLICATION

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

TECHNICAL DATA

Properties	Unit	Value (1)	ASTM Method
Resin Properties	a /10 main	4.0	D 1220
Melt Flow Rate @ 200°C & 5 kg load Density @23°C	g/10 min. kg/m³	4.0 1040	D-1238 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	НВ	-

TECHNICAL DATASHEET

PS 125

PRODUCT DESCRIPTION

General purpose polystyrene SABIC® PS 125 is manufactured by continuous mass polymerization of styrene monomer. It is a crystal-like, hard and brittle polymer; medium flow with excellent clarity and higher Vicat and Heat Distortion temperatures allow its use in many different applications.

APPLICATION

It is recommended for the manufacture of a variety of packaging items, namely jewelry and gift boxes; medical supplies such as petri dishes, test tubes and specimen jars, etc. Another important use is in caping the high impact polystyrene coextruded sheet for high surface gloss. It could be blended with impact modifier resin for clear packaging articles.

TECHNICAL DATA

Properties		Units SI	Values	Test methods
Polymer properties				
Melt flow rate (MFR)				ASTM D 1238
at 200 °C and 5 kg		g/10 min	7.0	
Density		kg/m³	1050	ASTM D 792
Bulk Density				ASTM D 1895
Method B		kg/m³	600	
Mechanical properties	1)			
Tensile test	2)			ASTM D 638
tensile strength		MPa	43	
tensile elongation		%	2	
tensile modulus		MPa	2598	
Flexural test				ASTM D 790
Flexural modulus		MPa	3529	
Flexural strength		MPa	82	
Izod impact notched at 23 °C	3)	J/m	12	ASTM D 256
Rockwell hardness				ASTM D 785
L-scale		-	95	
M-scale		-	63	
Thermal properties	1)			
Heat deflection temperature				ASTM D 648
Method B, 455 KPa, annealed		°C	90	
Vicat softening temperature				ASTM D 1525
Rate A, 1 kg/50 °C		°C	95	
Flammability rating, UL 94				-
at 1.3 mm and 3.0 mm		Class	НВ	