



## 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.

#### TRPICAL APPLICATION

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

#### TYPICAL DATA

Properties	Unit	Value <sup>(1)</sup>	ASTM Method
<b>Resin Properties</b>			
Melt Flow Rate @ 200°C & 5 kg load	g/10 min.	4.0	D-1238
Density @23°C	kg/m <sup>3</sup>	1040	D-792
Bulk Density (Method B)	kg/m <sup>3</sup>	600	D-1895
<b>Mechanical Properties <sup>(2)</sup></b>			
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	-	67	D-785
M-Scale	-	10	D-785
<b>Thermal Properties <sup>(2)</sup></b>			
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	-