

PRODUCT NAME: PS ps330

Supplier: SABIC®

Product Identification & Description

PS 330 is high Impact Polystyrene 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

PS 330 is primarily designed for extrusion and thermoforming applications. It can be used for food packaging and dairy products.

Physical Properties

Property	Typical Values	Units	Test Methods
Melt Flow Rate (MFR) @ 200 °C / 5.0 kg	4	g/10 min	ASTM D1238
Load Density @ 23 °C	1040	kg/m ³	ASTM D792
Bulk Density (Method B)	600	kg/m ³	ASTM D1895

Mechanical Properties

Property	Typical Values	Units	Test Methods
Tensile Strength	29	MPa	ASTM D638
Tensile Elongation	50	%	ASTM D638
Tensile Modulus	2353	MPa	ASTM D638
Flexural Strength	44	MPa	ASTM D790
Flexural Modulus	2647	MPa	ASTM D790
Izod Impact, Notched @ 23 °C	90	J/m	ASTM D256A
Rockwell Hardness (L-Scale)	67	–	ASTM D785
Rockwell Hardness (M-Scale)	10	–	ASTM D785

Thermal Properties

Property	Typical Values	Units	Test Methods
Flammability Rating UL 94 @ 1.3 mm (Natural)	HB	Class	
Vicat Softening Point (Rate A / 50 °C)	99	°C	ASTM D1525
Heat Deflection Temperature (Met B, 455 kPa, Annealed)	97	°C	ASTM D648

Processing Conditions

- Typical extruder barrel temperature (°C) profile for PS 330: 185-205, Die temperature (°C) : 215

Storage and Handling

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.

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties. It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes.

The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us. Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

Revision: This datasheet replaces all previous versions. **Revision Date:** Mar 2026

