

PRODUCT NAME: PS ps325

Supplier: SABIC®

Product Identification & Description

PS 325 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 having medium flow characteristics with high tensile and flexural strength with medium heat deflection and vicat temperatures.

Typical Applications

PS 325 has been designed for the injection molding of appliance parts, toys, furniture parts, containers, blow molded parts and structural foam applications.

Physical Properties

Property	Typical Values	Units	Test Methods
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	22	MPa	ASTM D638
Tensile Elongation	50	%	ASTM D638
Tensile Modulus	2157	MPa	ASTM D638
Flexural Strength	35	MPa	ASTM D790
Flexural Modulus	2353	MPa	ASTM D790
Izod Impact, Notched @ 23 °C	90	J/m	ASTM D256A
Rockwell Hardness (L-Scale)	60	–	ASTM D785
Rockwell Hardness (M-Scale)	10	–	ASTM D785

Thermal Properties

Property	Typical Values	Units	Test Methods
Vicat Softening Point (Rate A / 50 °C	95	°C	ASTM D1525
Heat Deflection Temperature (Metfr B, 455 kPa, Annealed)	93	°C	ASTM D648
Flammability Rating UL 94 @ 1.3 mI 3 mm (Natural)	HB	Class	

Processing Conditions

- Typical temperature (°C) profile for injection grade PS 325: Throat Feed Transition Metering Die
Ambient 175 210 220 215

Storage and Handling

PS 325 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.

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

