

SABIC® PS 325

HIGH IMPACT POLYSTYRENE FOR INJECTION MOLDING

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.

TYPICAL PROPERTY VALUES

Revision 20260509

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Load Density@ 23°C ⁽¹⁾	1040	kg/m³	ASTM D792
Bulk Density (Method B) ⁽¹⁾	600	kg/m³	ASTM D1895
MECHANICAL PROPERTIES			
Tensile Strength ⁽²⁾	22	MPa	ASTM D638
Tensile Elongation ⁽²⁾	50	%	ASTM D638
Tensile modulus ⁽²⁾	2157	MPa	ASTM D638
Flexural Strength ⁽²⁾	35	MPa	ASTM D790
Flexural Modulus	2353	MPa	ASTM D790
Izod impact notched at 23 °C	90	J/m	ASTM D256A
Rockwell Hardness, L-Scale ⁽²⁾	60	-	ASTM D785
M-Scale ⁽²⁾	10	-	ASTM D785
THERMAL PROPERTIES			
Vicat Softening Point, (Rate A/50°C)	95	°C	ASTM D1525
Heat Deflection Temperature (Method B, 455 KPa, Annealed)	93	°C	ASTM D648
Flammability Rating, UL 94			
@ 1.3 mm and 3 mm (natural color)	HB	Class	UL 94

(1) Typical values; not to be construed as specification limits.

(2) Based on Injection molded specimens.

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.

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petromall.net



info@petromall.ps



+970 599 2020 64



Hebron - Palestine

فلسطين - الخليل

+972 2 2233840

