

SABIC® PS 125

GENERAL PURPOSE POLYSTYRENE FOR INJECTION MOLDING

DESCRIPTION

125 is general purpose Polystyrene manufactured by continuous mass polymerization of styrene monomer. It is a crystal-like, hard and brittle polymer with medium flow and high clarity. It also has medium vicat and heat deflection temperatures and makes it suitable for various applications.

TYPICAL APPLICATIONS

PS 125 is recommended for packaging items, namely jewelry and gift boxes; medical supplies such as Petri dishes, test tubes holders and specimen jars. It can also be used in capping the high impact polystyrene coextruded sheet for higher surface gloss and can be blended with impact modifier resin for clear packaging articles.

TYPICAL PROPERTY VALUES

Revision 20260305

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
200°C / 5.0 kg	9	g / 10 min	ASTM D1238
Load Density@ 23°C			
	1050	kg/m ³	ASTM D792
Bulk Density (Method B)			
	600	kg/m ³	ASTM D1895
MECHANICAL PROPERTIES			
Tensile Strength			
	43	MPa	ASTM D638
Tensile Elongation			
	2	%	ASTM D638
Tensile modulus			
	2598	MPa	ASTM D638
Flexural Strength			
	82	MPa	ASTM D790
Flexural Modulus			
	3529	MPa	ASTM D790
Izod impact notched at 23 °C			
	12	J/m	ASTM D256A
Rockwell Hardness, L-Scale			
	95	-	ASTM D785
M-Scale ⁽¹⁾			
	63	-	ASTM D785
THERMAL PROPERTIES			
Flammability Rating, UL 94			
@ 1.3 mm and 3 mm (natural color)	HB	Class	-
Vicat Softening Point, (Rate A/50°C)			
	98	°C	ASTM D1525
Heat Deflection Temperature (Method B, 455 KPa, Annealed)			
	93	°C	ASTM D648

(1) Based on Injection molded specimens.

PROCESSING CONDITIONS

Typical barrel temperature (°C) profile for injection grade PS 125: 170-220, Die temperature (°C): 215

STORAGE AND HANDLING

PS 125 is 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

