POLYINTEC

Polyintec® PS125-IPG

General Purpose Polystyrene for Injection Molding

Product Description:

Polyintec® PS125-IPG is a 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, making it suitable for various injection molding applications.

Suggested Applications:

Packaging items (jewelry and gift boxes), medical supplies (Petri dishes, test tube holders, specimen jars), capping for high-impact polystyrene coextruded sheet, blended with impact modifier resin for clear packaging articles.

Nominal Physical Properties:

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL			
Melt Flow Rate (230°C/2.16 kgf)	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 (23°C)	12	J/m	ASTM D256A
Rockwell Hardness, L-Scale	95	-	ASTM D785
Rockwell Hardness, M-Scale	63	-	ASTM D785
THERMAL PROPERTIES			
Flammability Rating (UL 94)	HB	Class	-
(1.3 mm & 3 mm, natural color)			
Vicat Softening Point (Rate A/50°C)	98	°C	ASTM D1525
Heat Deflection Temperature	93	°C	ASTM D648
(Method B, 455 KPa, Annealed)			

Important Note:

The properties listed above are typical values obtained under laboratory conditions and are not intended to be used as specifications. Test conditions are listed under the test methods. The information is provided to the best of our knowledge and is, we believe, reliable, but it is the user's responsibility to perform their tests. Polyintec makes no warranties for a particular purpose.