



## Polyintec® PS100-IPG

### General Purpose Polystyrene

#### Product Description:

Polyintec® PS100-IPG is a general-purpose polystyrene manufactured by continuous mass polymerization of styrene monomer. It is a crystal-like, hard, and brittle polymer with good flow properties and high clarity. Designed for medium and thin-wall thickness articles, it provides a broad processing window for injection molding applications.

#### Suggested Applications:

Packaging items, Plastic boxes, Cutlery, Tumblers, Office stationery items, Jewelry boxes, Medical supplies, Clear injection molded items.

#### Nominal Physical Properties:

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>PHYSICAL</b>			
Melt Flow Rate (230°C/2.16 kgf)	14	g/10 min	ASTM D1238
Load Density @ 23°C	1050	kg/m <sup>3</sup>	ASTM D792
Bulk Density (Method B)	600	kg/m <sup>3</sup>	ASTM D1895
<b>MECHANICAL PROPERTIES</b>			
Tensile Strength	40	MPa	ASTM D638
Tensile Elongation	2	%	ASTM D638
Tensile Modulus	2254	MPa	ASTM D638
Flexural Strength	72	MPa	ASTM D790
Flexural Modulus	3529	MPa	ASTM D790
Izod Impact Notched (23°C)	12	J/m	ASTM D256A
Rockwell Hardness, L-Scale	94	-	ASTM D785
Rockwell Hardness, M-Scale	64	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
Flammability Rating (UL 94)	HB Class	-	-
Vicat Softening Point (A/50°C)	95	°C	ASTM D1525
Heat Deflection Temp. (B, 455 KPa)	90	°C	ASTM D648

#### Important Note:

The properties listed above are typical values obtained under laboratory conditions and are not intended to be used as specifications. The information is believed to be reliable, but the user should perform their own tests. Polyintec makes no warranty, express or implied. Polyintec is only responsible for the purchase price of the material.

