

Polyintec® PS325-IH

High Impact Polystyrene for Injection Molding

Product Description:

Polyintec® PS325-IH is a high-impact polystyrene (HIPS) designed for injection molding applications. This grade offers easy processing, allows for fast cycle times, and minimizes post-molding stress, resulting in outstanding impact retention. Its advanced rubber particle size control makes it ideal for high-gloss applications.

Suggested Applications:

Appliance housings, Housewares and toys, Structural foam, Refrigeration applications

Nominal Physical Properties:

Characteristic	Method	Unit	Typical Value
Rheological Properties			
Melt Flow (200°C-5kg)	D-1238	g/10mn	8.0
Mechanical Properties			
Falling Dart	D-3029	in-lb	110
Izod - notched	D-256	ft-lbs/in	2.0
Tensile Strength	D-638	psi	3,600
Tensile Modulus	D-638	psi (10 ⁵)	3.3
Elongation	D-638	%	45
Flexural Strength	D-790	psi	6,500
Flexural Modulus	D-790	psi (10 ⁵)	3.4
Thermal Properties			
Heat Distortion - Annealed	D-648	°F	193
Vicat Softening	D-1525	°F	205
Other Properties			
Gloss (60°)	D-523		90
Density		g/cm ³	1.04
Linear Shrinkage	D-955	in/in	0.004 - 0.007
Moisture		%	<0.1

Important Note:

The properties listed above are typical values obtained under laboratory conditions and are not intended to be used as specifications. Users should perform their own tests to determine the suitability of this product for their particular purposes. The manufacturer makes no warranty of any kind, express or implied, other than that the material conforms to applicable current standard specifications.

General information:

- Complies with FDA 21 CFR §177.1640.
- UL 94HB recognized (UL File E55470).
- USP Class VI.
-Material safety data sheets are available.