

VINPOL™ PS0350 Series

High Impact Polystyrene

Melt Flow: 3.5

Standard Tint Only

VINPOL PS0350 Series is a super high impact polystyrene available in high gloss (**VINPOL PS0350HG**) and low gloss (**VINPOL PS0350LG**) designed for sheet extrusion applications, such as deep draw thermoforming with good sidewall distribution. It has potential to replace ABS. This product combines high toughness without the sacrifice of mechanical properties. It is well designed for co-extrusion. This product meets all requirements of the U. S. Food and Drug Administration as specified in 21 CFR 177.1640 and is USP Class VI compliant. It also meets Underwriters Laboratory 94HB flammability performance.

Resin Property	Typical Value	Units	Test Method
Melt Flow Rate, (200 °C/5.0kg)	3.5	g/10 min	ASTM D-1238
Specific Gravity	1.04	g/cm ³	Supplier Method
Tensile Strength	3,500 (24)	psi (MPa)	ASTM D-638
Tensile Modulus	295,470 (2,037)	psi (MPa)	ASTM D-638
Elongation	55	%	ASTM D-638
Flexural Strength	6,300 (43)	psi (MPa)	ASTM D-790
Flexural Modulus	3.1X10 ⁵ (2,140)	psi (MPa)	ASTM D-790
Notched Izod Impact	3.2 (171)	ft-lb/in (J/m)	ASTM D-256
Falling Dart	160 (18)	in-lb (J)	ASTM D-3029
Vicat Softening Temperature	208 (98)	°F (°C)	ASTM D-1525
Heat Distortion Temperature (Annealed)	196 (91)	°F (°C)	ASTM D648
Gloss	90	60°	ASTM D-523
Linear Shrinkage	0.004-0.007	In/in	ASTM D-955
Moisture	<0.1	%	Supplier Method

Vinmar Polymers America cannot anticipate or control the many different conditions under which this information and/or product may be used. It does not guarantee the applicability or the accuracy of this information or the suitability of its products in any given situation. User of the material should make their own tests to determine the suitability of each such product for their particular purposes. The data listed herein falls within the normal range of product properties, but they should not be used to establish specification limits or used alone as the basis of design.