



VINPOL™ PS1302

High Impact Polystyrene

Melt Flow: 13.0

Notched Izod: 2

VINPOL PS1302 is a high melt flow, high impact polystyrene for challenging to fill injection molding applications with low residual stress on molded parts. This grade is well suited for large, thin-wall parts or molds with complex runner and gate systems. Applications include thin-wall injection molded parts, medical applications, fiber spools, and as masterbatch carrier resin. 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. This product also has a UL 94HB flammability rating.

Resin Property	Typical Value	Units	Test Method
Melt Flow Rate, (200 °C/5.0kg)	13.0	g/10 min	ASTM D-1238
Density	1.04	g/cm ³	Supplier Method
Tensile Strength	3,300 (23)	psi (MPa)	ASTM D-638
Tensile Modulus	320,000 (2,210)	psi (MPa)	ASTM D-638
Elongation	45	%	ASTM D-638
Flexural Strength	5,700 (39)	psi (MPa)	ASTM D-790
Flexural Modulus	300,000 (2,070)	psi (MPa)	ASTM D-790
Notched Izod Impact	2 (107)	ft-lb/in (J/m)	ASTM D-256
Falling Dart	120 (14)	in-lb (J)	ASTM D-3029
Vicat Softening Temperature	200 (93)	°F (°C)	ASTM D-1525
Heat Distortion Temperature (Annealed)	189 (87)	°F (°C)	ASTM D648
Gloss	94	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.

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