



VINPOL™ PS040H

General Purpose High Heat Polystyrene

Melt Flow: 4.0

Blue Tint Only

VINPOL PS040H is a high heat crystal polystyrene resin designed for injection molding, extrusion and blow molding. This product has excellent strength and good temperature resistance. Typical applications include electronics packaging, cutlery, office accessories, medical and appliance components. This product is compliant with FDA 21 CFR 177.1640, UL 94HB, and USP Class VI.

Resin Property	Typical Value	Units	Test Method
Melt Flow Rate, 200°C/5.0kg	4.0	g/10 min	ASTM D-1238
Density	1.04	g/cm ³	Supplier's Method
Tensile Modulus	430,000 (2,960)	psi (MPa)	ASTM D-638
Tensile Strength	7,400 (51)	psi (MPa)	ASTM D-638
Flexural Strength	14,000 (96)	psi (MPa)	ASTM D-790
Flexural Modulus	450,000 (3,100)	psi (MPa)	ASTM D-790
Vicat Softening Temperature	222 (106)	°F (°C)	ASTM D-1525
Heat Distortion - Annealed	208 (98)	°F (°C)	ASTM D648
Moisture	<0.1	%	Supplier Method
Linear Shrinkage	0.004-0.007	In/in	ASTM D-955

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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Rev. Date 6/29/2020