



## VINPOL™ PS0802

### High Impact Polystyrene

Melt Flow: 8.0

Standard Tint Only

**VINPOL PS0802** is a high impact polystyrene for injection molding. This grade has easy processability allowing for fast cycle times and minimal residual stress and resulting in high impact retention. Advanced rubber particle size control makes this polymer a great choice for high gloss applications. Applications include appliance housings, housewares, toys, structural foam and refrigeration devices. 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)	8.0	g/10 min	ASTM D-1238
Specific Gravity	1.04	g/cm <sup>3</sup>	Supplier Method
Tensile Strength	3,600 (25)	psi (MPa)	ASTM D-638
Tensile Modulus	330,000 (2,280)	psi (MPa)	ASTM D-638
Elongation	45	%	ASTM D-638
Flexural Strength	6,500 (45)	psi (MPa)	ASTM D-790
Flexural Modulus	340,000 (2,340)	psi (MPa)	ASTM D-790
Notched Izod Impact	2 (107)	ft-lb/in (J/m)	ASTM D-256
Falling Dart	110 (12.4)	ln-lb (J)	ASTM D-3029
Vicat Softening Temperature	205 (96)	°F (°C)	ASTM D-1525
Heat Distortion Temperature (Annealed)	193 (89.4)	°F (°C)	ASTM D648
Gloss	90	60°	ASTM D-523
Linear Shrinkage	0.004-0.007	ln/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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