

VINPOL™ PS0283

High Impact Polystyrene

Melt Flow: 2.8

Notched Izod: 3 ft-lbs/in

VINPOL PS02803 is a super high impact polystyrene with high gloss and stiffness designed for custom sheet extrusion/coextrusion, thermofoming and injection molding converting processes. Typical applications include down-gauged, large food service parts, cups, food packaging, and also specialty injection molded appliances and consumer electronics items. It has the potential to replace ABS. This product combines high toughness without the sacrifice of mechanical properties. It complies with the U. S. Food and Drug Administration as specified in 21 CFR 177.1640. It also meets Underwriters Laboratory 94HB flammability performance.

Resin Property	Typical Value	Units	Test Method
Melt Flow Rate, (200 °C/5.0kg)	2.8	g/10 min	ASTM D-1238
Density	1.04	g/cm ³	Supplier Method
Tensile Strength	3,800 (26)	psi (MPa)	ASTM D-638
Tensile Modulus	300,000 (2,070)	psi (MPa)	ASTM D-638
Elongation	55	%	ASTM D-638
Flexural Strength	6,900 (48)	psi (MPa)	ASTM D-790
Flexural Modulus	300,000 (2,070)	psi (MPa)	ASTM D-790
Notched Izod Impact	3 (160)	ft-lb/in (J/m)	ASTM D-256
Gardner Impact	160 (18)	in-lb (J)	ASTM D-3029
Vicat Softening Temperature	214 (101)	°F (°C)	ASTM D-1525
Heat Distortion Temperature (Annealed)	201 (94)	°F (°C)	ASTM D-648
Gloss	92	60°	ASTM D-523
Mold Shrinkage - Flow	0.004-0.007	in/in	ASTM D-955
Moisture	<0.1	%	Supplier Method

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