



VINPOL™ PI500

Impact Copolymer Polypropylene

Melt Flow: 50

Density: 0.9

VINPOL PI500 is an injection molding grade, high impact copolymer polypropylene. It is designed for large consumer and industrial parts, automotive parts, household goods, containers and tools and tote boxes requiring high melt flow. It has a good balance of stiffness and toughness, fast molding, good colorability, mold release, surface finish and thermal stability.

Resin Property	Typical Value	Units	Test Method
Melt Flow	50	g/10 min	ASTM D-1238
Density	0.9	g/cm ³	Supplier Method
Tensile Strength at Yield, 2.0 in/min (51 mm/min)	2,960 (20)	psi (MPa)	ASTM D-638
Elongation at Yield, 2.0 in/min (51 mm/min)	3.8	%	ASTM D-638
Flexural Modulus, 1% Secant, 0.051 in/min (1.3 mm/min)	152,000 (1,050)	psi (MPa)	ASTM D-790A
Flexural Modulus, 1% Secant, 0.51 in/min (13 mm/min)	171,000 (1,180)	psi (MPa)	ASTM D-790B
Notched Izod Impact Strength, 73° F (23°C)	2.2 (120)	ft-lb/in (J/m)	ASTM D-256A
Gardner Impact Strength-20°F (-29°C), 0.125 in (3.18mm)	203 (22.9)	In-lb (J)	ASTM D-5420
Deflection Temp. Under Load (DTUL) (66psi, Unannealed)	205 (96)	°F (°C)	ASTM D-648

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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