

## VINPOL™ PI120N

### Impact Copolymer Polypropylene

Melt Flow: 12

Density: 0.90

**VINPOL PI120N** is a medium melt flow rate, nucleated impact copolymer polypropylene resin designed for high impact resistance, high flexural modulus and excellent gloss. It is an injection molding and compounding grade. Applications include consumer goods, automotive, housewares and compounding. This product meets the requirements of FDA 21 CFR 177.1520.

Resin Property*	Typical Value	Units	Test Method
Melt Flow (230°C/2.16 kg)	12	g/10 min	ASTM D-1238
Density	0.90	g/cm <sup>3</sup>	ASTM D-1505
Tensile Strength at Yield, 2 in/min	3,740 (26)	psi (MPa)	ASTM D-638
Tensile Strength at Break, 2 in/min	2,620 (18)	psi (MPa)	ASTM D-638
Elongation at Yield, 2 in/min	6	%	ASTM D-638
Elongation at Break, 2 in/min	117	%	ASTM D-638
Flexural Modulus, 1% Secant	183,000 (1,260)	psi (MPa)	ASTM D-790A
Notched Izod Impact Strength, 23° C (73°F)	3.6 (19)	ft-lb/in (kJ/m <sup>2</sup> )	ASTM D-256
Notched Izod Impact Strength, -20°C (-4°F)	1.2 (6)	ft-lb/in (kJ/m <sup>2</sup> )	ASTM D-256
Vicat Softening Temperature	299 (148)	°F (°C)	ASTM D-1525
Heat Deflection Temp., 66psi (455 kPa)	215 (102)	°F (°C)	ASTM D-648
Heat Deflection Temp., 264psi (1,820 kPa)	128 (53)	°F (°C)	ASTM D-648
Rockwell Hardness	88	R	ASTM D-785

\*Injection molded samples used for physical properties

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.