



VINPOL™ PI020K

Impact Copolymer Polypropylene

Melt Flow: 2

Density: 0.900

VINPOL PI020K is a low flow, high impact copolymer polypropylene for sheet extrusion and thick wall injection molding applications. It offers a superior balance of stiffness and impact strength for thermoformed articles where freezer to microwave performance is required. Typical applications include appliances, compounding, consumer products, housewares, and rigid packaging. This material meets requirements of the U. S. Food and Drug Administration as specified in 21 CFR 177.1520.

Resin Property	Typical Value	Units	Test Method
Melt Flow	2	g/10 min	ASTM D-1238
Density	0.900	g/cm ³	ASTM D-792
*Tensile Strength at Yield, 2 in/min	4,190 (29)	psi (MPa)	ASTM D-638
*Elongation at Yield	5.4	%	ASTM D-638
*Tensile Strength at Break, 2 in/min	2,477 (17)	psi (MPa)	ASTM D-638
*Elongation at Break	162	%	ASTM D-638
*Flexural Modulus, 1% Secant	229,250 (1,580)	psi (MPa)	ASTM D-790A
*Notched Izod Impact Strength, 73°F (23°C)	No Break	ft-lb/in	ASTM D-256
*Notched Izod Impact Strength, -4°F (-20°C)	1.4 (7.1)	ft-lb/in (KJ/m ²)	ASTM D-256
*Heat Deflection Temperature, 66psi	241 (116)	°F (°C)	ASTM D-648
*Heat Deflection Temperature, 264psi	142 (60)	°F (°C)	ASTM D-648
*Vicat Softening Point	307 (153)	°F (°C)	ASTM D-1525
*Gloss at 60° Angle	59	GU	ASTM D-2457

**Properties measured on injection molded samples*

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.