



## VINPOL™ PI190

### Impact Copolymer Polypropylene

Melt Flow: 19

Density: 0.90

**VINPOL PI190** is a medium impact strength copolymer polypropylene resin with easy mold flow, good physical property balance and dimensional stability. Its stiffness/impact balance make it suitable for injection molding applications such as crates, bins and small appliances. This product meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

Resin Property	Typical Value	Units	Test Method
Melt Flow Rate (230°C/2.16kg)	19	g/10 min	ASTM D-1238
Density	0.90	g/cm <sup>3</sup>	ASTM D-1505
* Tensile Strength at Yield (50 mm/min)	3,630 (25)	psi (MPa)	ASTM D-638
*Tensile Elongation at Yield (50 mm/min)	6	%	ASTM D-638
*Flexural Modulus (1% Secant, 1.3 mm/min)	174,000 (1,200)	psi (MPa)	ASTM D-790
Deflection Temp. Under Load (66psi/0.45MPa, Unannealed)	219 (104)	°F (°C)	ASTM D-648
Deflection Temp. Under Load (264psi/1.8MPa, Unannealed)	127 (53)	°F (°C)	ASTM D-648
*Notched Izod Impact Strength, 23° C (73°F)	2.4 (130)	ft-lb/in (J/m)	ASTM D-256A

*\*Injection molded test 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.

Vinmar Polymers America, LLC / 16825 Northchase Drive, Suite 1400, Houston, TX 77060  
 Phone: 281-902-0900 Fax: 281-260-8096