



VINPOL™ PR440M

Random Copolymer Polypropylene

Melt Flow: 44

Density: 0.90

VINPOL PR440M is a nucleated/clarified random copolymer designed for injection molding applications requiring high transparency and gloss, good mechanical properties, high flow and lower cycle times with low off-odor. Targeted applications include high transparency TWIM parts, thin-walled food containers, disposable syringes and optical media (CD/DVD) cases. This resin is compliant with FDA 21 CFR 177.1520 (C).

Resin Property	Typical Value	Units	Test Method
Melt Flow	44	g/10 min	ASTM D-1238
Density	0.90	g/cm ³	ASTM D-792
Tensile Strength at Yield	3,980 (27)	psi (MPa)	ASTM D-638
Elongation at Break	>100	%	ASTM D-638
Flexural Modulus	164,000 (1,130)	psi (MPa)	ASTM D-790
Notched Izod Impact Strength, 73° F (23°C)	0.64 (34)	ft-lb/in (J/m)	ASTM D-256
Notched Izod Impact Strength, 14° F (-10°C)	0.46 (24)	ft-lb/in (J/m)	ASTM D-256
Heat Deflection Temp., 4.6 kgf/cm ²	203 (95)	°F (°C)	ASTM D-648
Rockwell Hardness	95	R Scale	ASTM D-785
Haze	25	%	ASTM D-1003

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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