



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

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