



VinPol™ PI100K

Impact Copolymer Polypropylene

Melt Flow: 10

Density: 0.900

VINPOL PI100K is an impact copolymer polypropylene designed for consumer and industrial applications.

Resin Property	Typical Value	Units	Test Method
Melt Flow (230°C/2.16 kg)	10	g/10 min	ASTM D-1238
Density	0.900	g/cm ³	ASTM D-792
Tensile Strength at Yield	3,070 (21.1)	psi (MPa)	ASTM D-638
Elongation at Yield	4.8	%	ASTM D-638
Flexural Modulus, 1% Secant, 1.3 mm/min	164,000 (1,130)	psi (MPa)	ASTM D-790A
Flexural Modulus, 1% Secant, 13 mm/min	188,000 (1,300)	psi (MPa)	ASTM D-790B
Notched Izod Impact Strength, 73°F (23°C)	No Break	-	ASTM D-256A
Notched Izod Impact Strength, 0°F (-18°C)	1.7 (91)	ft-lb/in (J/m)	ASTM D-256A
Notched Izod Impact Strength, 73°F (23°C)	24 (51)	ft-lb/in ² (kJ/m ²)	ISO 180/1A
Notched Izod Impact Strength, -40°F (-40°C)	3.8 (7.9)	ft-lb/in ² (kJ/m ²)	ISO 180/1A
Charpy Notched Impact Strength, 73°F (23°C)	26 (56)	ft-lb/in ² (kJ/m ²)	ISO 179/1eA
Charpy Notched Impact Strength, -4°F (-20°C)	4.7 (9.9)	ft-lb/in ² (kJ/m ²)	ISO 179/1eA
Heat Deflection Temp., 0.45 MPa	188 (86.4)	°F (°C)	Supplier Method
Heat Deflection Temp., 1.8 MPa	122 (49.9)	°F (°C)	Supplier Method
DTUL, 66 psi, Unannealed	203 (94.9)	°F (°C)	Supplier Method
DTUL, 66 psi, Annealed	236 (113)	°F (°C)	Supplier Method
Rockwell Hardness	80	-	ASTM D-785

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

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