vinmar polymers america

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

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