



VINPOL™ PC025

Injection Molding Grade Polycarbonate

Melt Flow: 2.5

Transparent Colors Only

VINPOL PC025 is a high viscosity, branched polycarbonate resin with high melt strength and impact resistance. This product is designed for blow molding and is a candidate for water bottle applications. It is available in transparent colors only and is compliant with FDA 21CFR177.1580 and European food contact regulation EC Directive EU 10/2011.

Resin Property	Typical Value	Units	Test Method
Melt Flow, 1.2kgf @ 300°C	2.5	g/10 min	ASTM D-1238
Specific Gravity	1.2	-	ASTM D-792
Mold Shrinkage, flow, 3.2mm	0.5-0.7	%	Supplier Method
Water Absorption, 23°C/equilibrium	0.35	%	ASTM D-570
Moisture Absorption, 23°C/50% RH	0.15	%	ISO 62
Melt Volume Rate, MVR @ 300°C/1.2kg	2	cm³/10 min	ISO 1133
Tensile Stress, yld, Type I, 50 mm/min	62	MPa	ASTM D-638
Tensile Stress, brk, Type I, 50 mm/min	65	MPa	ASTM D-638
Tensile Strain, yld, Type I, 50 mm/min	7	%	ASTM D-638
Tensile Strain, brk, Type I, 50 mm/min	>70	%	ASTM D-638
Tensile Modulus, 50 mm/min	2,350	MPa	ASTM D-638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	95	MPa	ASTM D-790
Flexural Modulus, 1.3 mm/min, 50 mm span	2,300	MPa	ASTM D-790
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D-4812
Izod Impact, unnotched, -30°C	NB	J/m	ASTM D-4812
Izod Impact, notched, 23°C	750	J/m	ASTM D-256
Izod Impact, notched, -30°C	150	J/m	ASTM D-256
Vicat Softening Temp, Rate B/50	150	°C	ASTM D-1525
HDT, 1.82 MPa, 3.2 mm, unannealed	130	°C	ASTM D-648
CTE, -40°C to 95°C, flow	7E-05	1/°C	ASTM E-831
Thermal Conductivity	0.2	W/m-°C	ASTM C-177
Light Transmission, 2.54mm	88	%	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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