



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	cm ³ /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

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