



VINPOL™ PC07U

Injection Molding Grade Polycarbonate

Melt Flow: 7.0

UV Stabilized

VINPOL PC070U Low flow polycarbonate resin with UV stabilizer (for outdoor and lighting applications) and UL HB flame rated. This product is designed for thicker molded sections without sinks.

Resin Property	Typical Value	Units	Test Method
Melt Flow, 1.2kgf @ 300°C	7.0	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
Water Absorption, 100°C/equilibrium	0.58	%	ASTM D-570
Water Absorption, 24 hours	0.15	%	ASTM D-570
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	110	%	ASTM D-638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	93	MPa	ASTM D-790
Flexural Modulus, 1.3 mm/min, 50 mm span	2,340	MPa	ASTM D-790
Izod Impact, unnotched, 23°C	3,204	J/m	ASTM D-4812
Izod Impact, notched, 23°C	907	J/m	ASTM D-256
Vicat Softening Temp, Rate B/50	154	°C	ASTM D-1525
HDT, 0.45 MPa, 6.4 mm, unannealed	137	°C	ASTM D-648
HDT, 1.82 MPa, 6.4 mm, unannealed	132	°C	ASTM D-648
CTE, -40°C to 95°C, flow	6.84E-05	1/°C	ASTM E-831
UL Yellow Card, 94HB Flame Class Rating	0.73	mm	UL 94
Light Transmission, 2.54mm	88	%	ASTM D-1003
Haze, 2.54mm	1	%	ASTM D-1003
Refractive Index	1.586	-	ASTM D-542
Volume Resistivity	>1E+17	Ohm-cm	ASTM D-257

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