



## VINPOL™ PC175R

### Injection Molding Grade Polycarbonate

Melt Flow: 17.5

Specific Gravity: 1.2

**VINPOL PC175R** is a medium flowing polycarbonate resin with mold release. It is FDA food contact compliant. It is available in limited transparent tints and package types.

Resin Property	Typical Value	Units	Test Method
Melt Flow, 1.2kgf @ 300°C	17.5	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/sat	0.35	%	ISO 62
Moisture Absorption, 23°C/50% RH	0.15	%	ISO 62
Melt Volume Rate, MVR @ 300°C/1.2kg	21	cm <sup>3</sup> /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	68	MPa	ASTM D-638
Tensile Strain, yld, Type I, 50 mm/min	7	%	ASTM D-638
Tensile Strain, brk, Type I, 50 mm/min	125	%	ASTM D-638
Tensile Modulus, 50 mm/min	2,380	MPa	ASTM D-638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	96	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	694	J/m	ASTM D-256
Vicat Softening Temp, Rate B/50	154	°C	ASTM D-1525
HDT, 1.82 MPa, 3.2 mm, unannealed	125	°C	ASTM D-648
CTE, -40°C to 95°C, flow	6.84E-05	1/°C	ASTM E-831
UL Yellow Card	Contact VPA	Flame Class	UL 94

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