

## VINPOL™ PC110UR

### Injection Molding Grade Polycarbonate

Melt Flow: 11.5

Water Clear or Blue Tint

**VINPOL PC110UR** is a natural color, polycarbonate resin designed for injection molding applications. It contains UV protective and mold release additives. It is FDA compliant to 21 CFR 177.1580. Water clear and blue tint variants are available.

Resin Property	Typical Value	Units	Test Method
Melt Flow, 1.2kg @ 300°C	11.5	g/10 min	ASTM D-1238
Specific Gravity	1.2	-	ASTM D-792
Mold Shrinkage, (MD/TD) flow, 3.2mm	0.5-0.7/0.5-0.7	%	ASTM D-955
Tensile Strength at Yield, 50 mm/min	63	MPa	ASTM D-638
Tensile Strain at Break, yld, 50 mm/min	110	%	ASTM D-638
Tensile Strength at Break, 50 mm/min	64	MPa	ASTM D-638
Tensile Modulus, 50 mm/min	2,000	MPa	ASTM D-638
Flexural Strength, 2.8 mm/min	90	MPa	ASTM D-790
Flexural Modulus, 2.8 mm/min	2,300	MPa	ASTM D-790
Izod Impact, notched, 23°C, 1/4"	150	J/m	ASTM D-256
Izod Impact, notched, 23°C, 1/8"	850	J/m	ASTM D-256
Rockwell Hardness	120	R Scale	ASTM D-785
Vicat Softening Temp, B/50	145	°C	ISO 306
HDT, 18.56 kgf/cm <sup>2</sup> , 6.4mm	135	°C	ASTM D-648
HDT, 4.6 kgf/cm <sup>2</sup> , 6.4mm	140	°C	ASTM D-648
Flammability, V2	0.75-3.0	mm	UL 94

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.