



VINPOL™ PC220UR

Injection Molding Grade Polycarbonate

Melt Flow: 22

Specific Gravity: 1.2

VINPOL PC220UR 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	22	g/10 min	ASTM D-1238
Specific Gravity	1.2	-	ASTM D-792
Mold Shrinkage, (MD) flow, 3.2mm	0.5-0.7	%	ASTM D-955
Water Absorption, 23°C	0.2	%	ASTM D-570
Tensile Strength, yld, 50 mm/min	9,100 (62)	psi (MPa)	ASTM D-638
Tensile Elongation, yld, 50 mm/min	90	%	ASTM D-638
Flexural Strength, 10 mm/min	13,000 (89)	psi (MPa)	ASTM D-790
Flexural Modulus, 10 mm/min	330,000 (2,280)	psi (MPa)	ASTM D-790
Izod Impact, notched, 23°C, 1/8"	14 (747)	ft-lb/in (J/m)	ASTM D-256
Rockwell Hardness	120	R Scale	ASTM D-785
Vicat Softening Temp, B/50	290 (143)	°F (°C)	ISO R 306
HDT, 18.56 kgf/cm ²	260 (127)	°F (°C)	ASTM D-648
Flammability, V2	0.8-3.2	mm	UL 94
Dielectric Constant	2.9	10E^6Hz	ASTM D-150
Transmissivity, 3mm	90	%	ASTM D-1003
Haze, 3mm	0.2	%	ASTM D-542

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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