

VINPOL™ PC220UR

Injection Molding Grade Polycarbonate

Melt Flow: 22

Water Clear or Blue Tint

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 ⁶ Hz	ASTM D-150
Transmissivity, 3mm	90	%	ASTM D-1003
Haze, 3mm	0.2	%	ASTM D-542

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