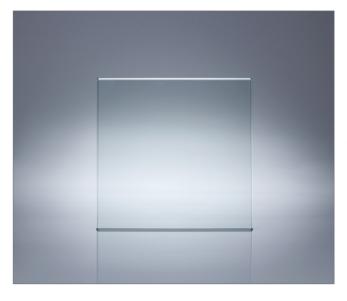


Polycarbonate (PC)

NGINFFRING PLASTIC

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Product Overview

Polycarbonate (PC) is an amorphous transparent material that combines good electrical and mechanical properties.

It represents a material grade that lends itself well to various industrial applications. As well as being fully recyclable, Polycarbonate benefits from good machinability and can be accurately processed to close working tolerances. An enhanced Polycarbonate (PC GF 20) offers improved tensile strength and stiffness with lower coefficient thermal expansion.

Polycarbonate is also machinable to close tolerances.

Key Features

- High impact strength and heat resistance
- Good electrical insulation characteristics
- Fracture resistant
- Transparent with good dimensional stability

Applications

- Manifolds
- Automotive parts
- Safety glasses, impact guards
- Packaging

Typical Properties

Property	Units	Test Method	/ PC	PC GF 20
Specific Gravity		ASTM D 792	1.2	1.35
Water Absorption 24 hrs	%	ASTM D 570	0.15	0.16
Water Absorption Saturation	%	ASTM D 570	0.35	0.29
Flammability		UL 94	НВ	НВ
Tensile Strength	psi	ASTM D 638	10,000	16,000
Elongation	%	ASTM D 638	75	6
Modulus	psi	ASTM D 638	320,000	860,000
Flexural Strength	psi	ASTM D 790	13,000	19,000
Modulus	psi	ASTM D 790	340,000	800,000
Notched Izod	ft-lb/in	ASTM D 256	10	2
Rockwell Hardness		ASTM D 785	M75	M91
HDT @ 264 psi	°F	ASTM D 648	280	295
Coefficient Linear thermal expansion	in/in/°F	ASTM D 696	3.80 x 10	1.5 x 10 ⁶⁵
Dielectric Strength	V / mil	ASTM D 149	380	490
Volume Resistivity	ohm-cm	ASTM D 257	>1013	10 ¹⁷
Dielectric Constant		ASTM D 150	3.2	3.13



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