

**Material Specification
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Polycarbonate**General Information - Amorphous thermoplastic**

Good dimensional stability Low moisture content High hardness Good electrical insulating properties	High stiffness Extremely high impact strength High heat deflection temperature
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Application

Electrical industry Medical engineering	Safety engineering Automotive industry
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	Test Method	Unit	Guidance Value
General Properties			
Density	DIN EN ISO 1183-1	g/cm ³	1.20
Water Absorption	DIN EN ISO 62	%	0.2
Flammability (Thickness 3mm/6mm)	UL94		HB/HB
Mechanical Properties			
Yield Stress	DIN EN ISO 527	Mpa	65
Elongation at Break	DIN EN ISO 527	%	80
Tensile Modules of Elasticity	DIN EN ISO 527	Mpa	2300
Notched Impact Strength	DIN EN ISO 179	kJ/m ²	20
Shore Hardness	DIN EN ISO 868	Scale D	82
Thermal Properties			
Thermal Conductivity	DIN 52612-1	W (m * K)	0.21
Thermal Capacity	DIN 52612	kJ (kg * K)	1.20
Coefficient of Linear Thermal Expansion	DIN 53752	10 ⁻⁶ /K	70
Service Temperature, Long Term	Average	°C	-40...115
Service Temperature, Short Term (max.)	Average	°C	140
Heat Deflection Temperature	DIN EN ISO 75, Verf.A, HDT	°C	135
Electrical Properties			
Dielectric Constant	IEC 60250		3
Dielectric Dissipation Factor (50 Hz)	IEC 60250		0.001
Volume Resistivity	DIN EN 62631-3-1	Ω* cm	10 ¹⁵
Surface Resistivity	DIN EN 62631-3-2	Ω	10 ¹⁵
Comparative Tracking Index	IEC 60112		275
Dielectric Strength	IEC 60243	kV/mm	30

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