

PC Alloy, excellent heat resistance, impact resistance and weather resistance, suitable for long-term outdoor products.

Properties	Typical Value	Units	Test Method
Mechanical Properties			
Tensile Modulus, 1 mm/min	2400	MPa	ISO 527-1/-2
Tensile Stress at Break, 50 mm/min	45	MPa	ISO 527-1/-2
Tensile Strain at Yield, 50 mm/min	4	%	ISO 527-1/-2
Tensile Strain at Break, 50 mm/min	>50	%	ISO 527-1/-2
Flexural Modulus, 2 mm/min	2350	MPa	ISO 178
Flexural Strength, 2 mm/min	80	MPa	ISO 178
Charpy Notched Impact Strength, +23°C	50	KJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	30	KJ/m ²	ISO 179/1eA
Thermal Properties			
Temperature of Deflection Under Load, 1.8 MPa	110	°C	ISO 75-1/-2
Temperature of Deflection Under Load, 0.45 MPa	130	°C	ISO 75-1/-2
Vicat Softening Temperature, Rate B/50	130	°C	ISO 306
Flame Resistant, 1.5 mm	HB	Class	UL 94
Electrical Properties			
Relative Permittivity, 1 MHz	3.0	-	IEC 60250
Volume Resistivity	1E14	Ohm.m	IEC 60093
Surface Resistivity	1E16	Ohm	IEC 60093
Physical Properties			
Density	1.15	g/cm ³	ISO 1183
Molding Shrinkage, 3.2 mm, Parallel / Normal	0.5 - 0.7	%	ISO 2577
Melt Volume-Flow Rate, 260°C / 5.0 kg	20	cm ³ /10 min	ISO 1133
Injection Molding			
Drying Temperature	100	°C	4 hours
Melt Temperature	260 - 290	°C	-
Mould Temperature	60 - 90	°C	-

Revised: 06/26/2024

Sogun[®] provided information about the product, whether data, recommendations or other information, is researched and trustworthy. Since there are many influencing factors in the production process, users are advised to conduct their own tests before production. The standard values are for reference only and should not be regarded as binding specifications.

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