

Data Sheet: PC – ISO Polycarbonate

Details

It has a tensile strength of 57MPa with a heat deflection temperature of 133°C. It is a strong, heat resistant material. It is biocompatible resulting in its broad use in food and drug packaging.

Key Features

Strong • Resistant to heat • Biocompatible

Thermal Properties

Property	Value
Heat deflection [°C]	133
Glass transition temperature [°C]	161
Vicat softening temperature [°C]	139
Coefficient of thermal expansion [K-1 · 10-6]	65
Thermal conductivity [W/m · K]	0.19
Specific heat capacity [J/kg · K]	1200

Mechanical Properties

Property	Value
Tensile strength [MPa]	57
Modulus of elasticity [GPa]	2
Flexural strength [MPa]	90
Flexural modulus [GPa]	2.14
Hardness	70

Impact strength [J/m]	86
Elongation at break [%]	4

Physical Properties

Property	Value
Density [g/cm ³]	1.2
Water Absorption [%]	0.1
Electrical Resistivity [ohm-cm]	1.5×10^{14}

Reference

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