Data Sheet

PC-ABS Polycarbonate

Alternative Designations

Polycarbonate

Key Features

Stiff • Resistant to heat • High impact strength

Description

Polycarbonate (PC) is a durable, tough plastic that offers high optical clarity and shatter resistance. This material blends the ease of processing of ABS with the high strength and mechanical properties of PC. It has a high impact strength, good heat resistance, high stiffness and dimensional stability. It is typically applied in the automotive and electronic industry for parts such as glove boxes, TV frames, panels, keypads.

Mechanical Properties

Tensile modulus	1900 MPa
Tensile strength	41 MPa
Elongation at break	6%
Flexural strength	68 MPa
Flexural modulus	1.9 GPa

Thermal Properties

Heat deflection temperature (1.80 MPa)	96°C
Heat deflection temperature (0.45 MPa)	110°C
Softening temperature	112°C

Physical Properties

Density	1.1 g/cm^3

Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit Materialdatacenter.com for further information on this material.