



# PC (Polycarbonate)

## Alternative Designations

Polycarbonate

## Key Features

Transparent • Durable • Shatter resistant • Good electrical properties

## Description

This is a naturally transparent plastic with high strength and durability on impact. It is shatter resistant and heat resistant. It is made from a mixture of bisphenol A (BPA) and phosgene. It has high stiffness and high viscosity. PC is generally easy to work with and is used in applications such as food and beverage packaging, medical devices, eyewear, electronics, and construction materials.

## Mechanical Properties

Tensile modulus	2206 MPa
Tensile strength	65.5 MPa
Elongation at break	60%
Flexural strength	103.4 MPa
Flexural modulus	2.58 GPa
Hardness	95

## Thermal Properties

Heat deflection temperature (1.80 MPa)	132°C
Softening temperature	145°C

## Physical Properties

Density	1.2 g/cm <sup>3</sup>
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## Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit [Materialdatacenter.com](https://Materialdatacenter.com) for further information on this material.