



# PC (Polycarbonate)

## **Alternative Designations**

#### **Key Features**

Polycarbonate

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**

### **Thermal Properties**

Tensile modulus	2206 MPa	Heat deflection temperature (1.80 MPa)
Tensile strength	65.5 MPa	Softening temperature
Elongation at break	60%	
Flexural strength	103.4 MPa	
Flexural modulus	2.58 GPa	

95

# **Physical Properties**

Hardness

Density	1.2 g/cm <sup>3</sup>
	8

#### Reference

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

132°C

145°C