



## 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 <sup>3</sup> |
|---------|-----------------------|

## 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.