

Data Sheet: PC - ABS

Details

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.

Key Features

Stiff • Resistant to heat • High impact strength

Thermal Properties

Property	Value
Heat deflection [°C]	110
Glass transition temperature [°C]	109
Vicat softening temperature [°C]	135
Coefficient of thermal expansion [K ⁻¹ · 10 ⁻⁶]	20
Thermal conductivity [W/m · K]	0.25
Specific heat capacity [J/kg · K]	1500

Mechanical Properties

Property	Value
Tensile strength [MPa]	39.9
Modulus of elasticity [GPa]	1.83
Flexural strength [MPa]	66.3
Flexural modulus [GPa]	2.08

Impact strength [KJ/m ²]	25.8
Elongation at break [%]	4.2

Physical Properties

Property	Value
Density [g/cm ³]	1.1
Water Absorption [%]	0.2
Electrical Resistivity [ohm-cm]	14×10^{15}

Reference

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