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Injection Molding

# PC-ABS (Polycarbonate)

## Key Features

Impact resistance • Chemical resistance • Stiffness • Flame-retardancy • Heat resistance > 100°C

## Applications

End-use parts • Automotive • Electronics • Engineering • Consumer goods

## Product Description

PC-ABS is a high-impact, durable resin combining the toughness of polycarbonate (PC) with the flexibility of ABS. Known for its excellent mechanical strength, good dimensional stability, and chemical resistance, this material is ideal for injection molding applications. It is widely used in the automotive industry for interior components and housings, electrical and electronics for enclosures and connectors, consumer goods such as power tools and appliance casings, healthcare for medical device housings, and various industrial applications requiring robust, durable components.

## Properties\*

Tensile modulus	MPa
Tensile strength	54.3 MPa
Tensile elongation (break)	80%
Flexural strength	82.7 MPa
Flexural modulus	2,260 MPa
Notched Izod impact (23°)	640 J/m
Heat deflection temperature (1.80 MPa)	108°C
Vicat softening temperature	124°C
Density	1.14 g/cm <sup>3</sup>
Burning rate (self-extinguishing)	<25 mm/min

\*Based on material AuroraEcoplast™ ENV15-71816

