

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 | 82.7MPa |
| 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 ³ |
| Burning rate (self-extinguishing) | <25 mm/min |

*Based on material AuroraEcoplast™ ENV15-71816

Reference

For more detailed source information, please consult the original document linked [here](#). We encourage users to verify the data's relevance and suitability for their specific needs.

