

Standard Heat resistant, PC-like

Alternative Designations

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Key Features

High impact resistance • UV stable • Easy to clean • Durable • Good machinability • Whitish colour

Description

This material is a heat-resistant plastic that is similar to PC in terms of its properties and applications. The benefits of using this type of material include its resistance to high temperatures and its strength. This material is often used in applications where heat resistance is a concern, such as in the automotive, lighting, defence, medical, and aerospace industries. Some of the benefits of using this material include good formability, high dielectric strength, and excellent durability.

Mechanical Properties

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|---------------------------|----------|
| Tensile modulus | 2.9 GPa |
| Ultimate tensile strength | 51.1 MPa |
| Elongation at break | 2.4% |
| Flexural strength | 93.8 MPa |
| Flexural modulus | 2.62 GPa |
| Hardness (Shore D) | 70 |

Thermal Properties

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| Heat deflection temperature (1.80 MPa) | 101°C |
| Heat deflection temperature (0.45 MPa) | 238°C |

Physical Properties

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|---------|-------------------------------|
| Density | 0.043 – 1.2 g/cm ³ |
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Reference

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