Polycarbonate-ABS

Fused Deposition Modelling (FDM)

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Great combination of strength, flexibility and heat resistance

Polycarbonate-ABS (PC-ABS) combines the exceptional strength and heat resistance of PC with the flexibility of ABS; making it ideal for automotive, electronics and telecommunications applications.

PC-ABS can be used for concept modelling, functional prototyping, manufacturing tools and production parts.

Why choose PC-ABS?

- High tensile and flexural strength
- Tough with superior impact strength
- Higher heat resistance than standard ABS
- Transparent to radio frequencies
- Durability

Applications

- Conceptual models
- Jigs and fixtures
- Rapid tooling
- Industrial equipment

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General properties	Value (XY Axis)	Test method
Colour	Black	Visual
Part density	1.10 g/cm^3	ASTM D792

Thermal properties	Value (XY Axis)	Test method
Heat deflection temperature – annealed (0.45Mpa)	110° C	ASTM D648
Heat deflection temperature – annealed (1.8Mpa)	96° C	ASTM D648

Mechanical properties	Value (XY Axis)	Test method
Tensile strength (ultimate)	41 MPa	ASTM D638
Tensile modulus	1900 MPa	ASTM D638
Tensile elongation	6%	ASTM D638
Flexural strength	68 MPa	ASTM D790
Flexural modulus	1900 MPa	ASTM D790
Impact strength – Izod (notched)	196 J/m	ASTM D256
Impact strength – Izod (un-notched)	481 J/m	ASTM D256

Other	Value (XY Axis)	Test method
Flammability classification	HB	UL94

Get a quote for your parts at rapidfab.ricoh-europe.com
Have a question? Call our friendly team on
+44 (0) 800 304 7196

Specifications are subject to change without notice.

The technical data indicated above is an average value of the test result of a part created under proper management and appropriate conditions. The value is for reference and is not guaranteed.

TDS-FDM-PC-ABS | 09/19-v1

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