

Polycarbonate-ABS

Fused Deposition Modelling
(FDM)

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?

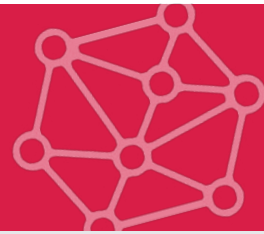
- High tensile and flexural strength
- Tough with superior impact strength
- Higher heat resistance than standard ABS
- Transparent to radio frequencies
- Durability

Applications

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

Polycarbonate-ABS

Fused Deposition Modelling (FDM)



| 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 |

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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.