

MATERIAL CARD 01

ABS

ABS thermoplastic filament blends the design freedom of FDM (Fused Deposition Modelling) technology with versatility and affordability. Characterised by its strength and toughness, ABS is also lightweight and resilient, making it suitable for most general-purpose 3D printing applications.

Benefits

ABS exhibits advantageous mechanical and thermal properties, including high impact resistance and toughness. It can be easily post-processed for surface finishing, painting, or bonding. With its cost-effectiveness, ABS is ideal for tooling and prototyping. It is also a commonly used material for production parts across a wide range of industries.



Physical & Mechanical Properties

Property	Typical Value
Tg (°C)	105
Melt Temp (°C)	210
Density (kg/m ³)	1040
Yield strength (MPa)	30
Bio-Compatibility	Yes

	Good	Average	Poor
Chemical Resistance		■	
UV Stability			■
Reusability	■		
Impact Resistance	■		
Fire Performance			■

To discuss your next additive manufacturing challenge, call our experts on **03330 150 563**



Typical Applications

- Prototyping
- Automotive parts
- Electronic housings
- Tooling
- Parts with threaded fasteners
- Enclosures
- Production Parts

Industries

- Aerospace
- Defence
- Space
- Rail
- Marine
- Nuclear
- Automotive

Colour Options

- Black
- White
- Blue
- Red
- Yellow
- Nectarine
- Ivory
- Green
- Grey
- Natural

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