

Tough 60C White

Production Rigid

Repeatable, high mechanical loads at elevated temperatures

Simulating white ABS, with excellent strength and durability this material is ideal for long-term use parts and is biocompatible.



Benefits

- **Versatile and production-grade quality**
- **Biocompatible**
- **High impact strength, tensile strength, and elongation at break**

Applications

- Clinical trials and medical devices such as tools, handles, and small plastic parts
- Load-bearing parts such as handles, cranks, knobs, and levers
- Structural parts like brackets, snap-fits, and custom fasteners
- Small parts requiring detail and accuracy in consumer products, wearable devices, and general use
- Functional



Physical Properties

Colour	White
Type	ABS

Mechanical Properties

		TEST/ISO
Solid Density	1.23 g/cm³	ASTM D792
Tensile Strength (MPa)	35	ASTM D638
Tensile Modulus (MPa)	1500	
Elongation at Break (%)	23	
Elongation at Yield (%)	7.1	
Flexural Strength (MPa)	52	ASTM D790
Flexural Modulus (MPa)	1500	
Notched Izod Impact Strength (J/m)	34	ASTM D256
Unnotched Izod Impact Strength (J/m)	90	ASTM D4812
Heat Deflection Temperature (°C)		ASTM D648
@ 0.455 MPA		
@ 1.82 MPA		
Shore Hardness	79D	ASTM D2240
24hr Water Absorption (%)	0.61	ASTM D570

Electrical

Dielectric Strength (kV/mm) @3mm	13	ASTM D149
Dielectric Constant @ 1MHz	3.79	ASTM D150
Dissipation Factor @ 1MHz	0.033	
Volume Resistivity (ohm-cm)	2.45x10¹⁵	ASTM D257

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Please be advised that all information provided in this document is representative of typical properties and as advised by the material manufacturer. Performance characteristics of these products may vary according to product application, operating conditions or with end use.

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