

# 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/cm <sup>3</sup>	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	65 °C	
@ 1.82 MPA	48 °C	
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)	2.45x10 <sup>15</sup>	ASTM D257

Call: 028 9070 6940  
Email: [sales@laserproto.com](mailto:sales@laserproto.com)  
Web: [www.laserproto.com](http://www.laserproto.com)

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