

# 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	<b>1.23 g/cm<sup>3</sup></b>	ASTM D792
Tensile Strength (MPa)	<b>35</b>	ASTM D638
Tensile Modulus (MPa)	<b>1500</b>	
Elongation at Break (%)	<b>23</b>	
Elongation at Yield (%)	<b>7.1</b>	
Flexural Strength (MPa)	<b>52</b>	ASTM D790
Flexural Modulus (MPa)	<b>1500</b>	
Notched Izod Impact Strength (J/m)	<b>34</b>	ASTM D256
Unnotched Izod Impact Strength (J/m)	<b>90</b>	ASTM D4812
Heat Deflection Temperature (°C)		ASTM D648
@ 0.455 MPA		
@ 1.82 MPA		
Shore Hardness	<b>79D</b>	ASTM D2240
24hr Water Absorption (%)	<b>0.61</b>	ASTM D570

### Electrical

Dielectric Strength (kV/mm) @3mm	<b>13</b>	ASTM D149
Dielectric Constant @ 1MHz	<b>3.79</b>	ASTM D150
Dissipation Factor @ 1MHz	<b>0.033</b>	
Volume Resistivity (ohm-cm)	<b>2.45x10<sup>15</sup></b>	ASTM D257

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