

# MED-WHT 10

## Biocompatible, High Temperature

Medical applications requiring biocompatibility, sterilisation and/or thermal resistance



Simulating white ABS, this material produces aesthetic white models with a smooth surface finish, capable of meeting ISO 10993-5 and 10993-10 standards for biocompatibility.

### Benefits

- Heat deflection temperature of over 100°C
- High accuracy
- Excellent feature resolution and high definition

### Applications

- General medical applications requiring biocompatibility, sterilization and/or thermal resistance
- Surgical drill guides, splints
- Bone models
- Parts requiring rigidity with high temperature and/or water resistance
- Parts with high-definition details



### Physical Properties

Colour	White
Type	ABS

### Liquid Material

Solid Density (g/cm <sup>3</sup> )	1.18
Layer Thickness (mm)	0.05

### Mechanical Properties

		TEST/ISO
Tensile Strength, Ultimate (MPa)	60	ASTM D638
Tensile Strength, at Yield (MPa)	60	
Tensile Modulus (MPa)	3090	
Elongation at Break (%)	3	
Elongation at Yield (%)	N/A	
Flexural Strength (MPa)	112	ASTM D790
Flexural Modulus (MPa)	3290	
Notched Izod Impact Strength (J/m)	17	ASTM D256
Unnotched Izod Impact Strength (J/m)	91	ASTM D4812
<b>Heat Deflection Temperature (°C)</b>		ASTM D648
@ 0.45 MPa	102	
@ 1.82 MPa	79	
<b>Co-efficient of Thermal Expansion (ppm/°C)</b>		ASTM E831
<T <sub>g</sub>	83	
>T <sub>g</sub>	154	
Glass Transition (T <sub>g</sub> )	102°C	ASTM E1640
Shore Hardness	84D	ASTM D2240
Water Absorption (%)	0.25	ASTM D570

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