

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 ³)	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 (%)		
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
Heat Deflection Temperature (°C)		ASTM D648
@ 0.45 MPa	102	
@ 1.82 MPa	79	
Co-efficient of Thermal Expansion (ppm/°C)		ASTM E831
<T _g	83	
>T _g	154	
Glass Transition (T _g)	102°C	ASTM E1 640

Shore Hardness	84D	ASTM D2240
Water Absorption (%)	0.25	ASTM D570

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