



Figure 4™ MED-WHT 10

Biocompatible* Rigid

A rigid white material for applications requiring biocompatibility and/or thermal resistance

Figure 4® Standalone

BEAUTIFUL WHITE PARTS, THAT CAN BE STERILIZED AND TESTED AT HIGH TEMPERATURE

Figure 4 MED-WHT 10 is a rigid, white material for a range of medical and industrial applications, including when biocompatibility, sterilization and/or thermal resistance is required. It delivers parts with excellent feature resolution and high definition.

Liquid Material

MEASUREMENT	CONDITION	METRIC	U.S.
Viscosity	@ 25 °C (77 °F)	937 cps	2270 lb/ft-hr
Color		White	
Liquid Density	@ 25 °C (77 °F)	1.18 g/cm ³	0.043 lb/in ³
Package Volume		1 kg bottle - Figure 4 Standalone	
Layer Thickness (Standard Mode)		0.05 mm	0.002 in
Vertical Build Speed (Standard Mode)		41 mm/hr	1.6 in/hr
Draft Mode		56 mm/hr	2.2 in/hr

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

BENEFITS

- Capable of meeting ISO 10993-5 and -10 standards for biocompatibility (cytotoxicity, sensitization and irritation)
- Smooth surfaces for beautiful display models and prototypes
- High temperature testing
- True-to-CAD accuracy and crisp feature detail

FEATURES

- Biocompatible*
- Sterilizable by autoclave
- Thermal resistance over 100 °C
- Excellent humidity/moisture resistance
- Rigid and white



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Post-Cured Material

MECHANICAL PROPERTIES				
MEASUREMENT	CONDITION	METRIC	U.S.	
Solid Density (g/cm ³ lb/in ³)	ASTM D792	1.27	0.046	
Tensile Strength, Ultimate (MPa PSI)	ASTM D638	60	8700	
Tensile Modulus (MPa KSI)	ASTM D638	3090	450	
Elongation at Break	ASTM D638	3%		
Flexural Strength (MPa PSI)	ASTM D790	112	16240	
Flexural Modulus (MPa KSI)	ASTM D790	3290	480	
Notched Izod Impact Strength (J/m Ft-lbs/in)	ASTM D256	17	0.3	
Unnotched Izod Impact Strength (J/m Ft-lbs/in)	ASTM D4812	91	1.7	
Heat Deflection Temperature @ 0.45 MPa (66 PSI)	ASTM D648	102 °C	216 °F	
@ 1.82 MPa (264 PSI)		79 °C	175 °F	
Coefficient of Thermal Expansion (CTE) (ppm/°C ppm/°F)	ASTM E831			
		< Tg	83	46
		> Tg	154	86
Glass Transition (Tg), DMA, E"	ASTM E1640	102 °C	216 °F	
Hardness, Shore	ASTM D2240	84D		
Water Absorption (24 hour)	ASTM D570	0.25%		



Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

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* Biocompatibility is based on testing by 3D Systems on a single geometry and sample set per ISO 10993-5 and -10. Users should confirm fitness for use and biocompatibility for their applications.

Note: Not all products and materials are available in all countries – please consult your local sales representative for availability



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U.A.E Office : 3204, Prism Tower, Business Bay, P.O. Box 28820, Dubai, U.A.E.

K.S.A Office : Al Saif Tower, 6th Floor, King Abdullah Street, Near Intersection with Olaya Street, Riyadh, K.S.A.

Tel : +971.4.443.3853 ; Fax : +971.4.443.3938 ; Email : info@3d-me.com ; Website: www.3d-me.com

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DISTRIBUTOR | Middle East & North Africa