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 Draft Mode		 41 mm/hr 56 mm/hr	 1.6 in/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

3D SYSTEMS®

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Post-Cured Material

MECHANICAL PROPERTIES			
MEASUREMENT	**CONDITION**	**METRIC**	**U.S.**
Solid Density (g/cm³ | lb/in³)	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) @ 1.82 MPa (264 PSI)	ASTM D648	 102 °C 79 °C	 216 °F 175 °F
Coefficient of Thermal Expansion (CTE) (ppm/°C | ppm/°F) < Tg > Tg	ASTM E831	 83 154	 46 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%	

3D SYSTEMS®

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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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