

# Medical White

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

## Key Attributes

Medical White 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.

- 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

## Properties

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