

# MED-AMB 10

## Biocompatible and Rigid

Applications requiring biocompatibility, translucency and/or thermal resistance

Simulating high-temperature plastic, this translucent amber material produces highly accurate parts.



## Benefits

- Ultra-high temperature resistant, with temperature resistance of over 100°C
- High rigidity
- Excellent feature resolution and high definition

## Applications

- General medical applications requiring biocompatibility, sterilization and/or thermal resistance
- Surgical drill guides, splints
- Parts requiring rigidity with high temperature resistance
  - Fluid handling manifolds
  - Elevated temperature testing
- Parts with high-definition details
  - Threaded assemblies
- Visualization and fluid flow models



## Physical Properties

Colour	Amber
Type	ABS

## Liquid Material

Solid Density (g/cm <sup>3</sup> )	1.20
Layer Thickness (mm)	0.05

## Mechanical Properties

		TEST/ISO
Tensile Strength (MPa)	69	ASTM D638
Tensile Modulus (MPa)	2760	
Elongation at Break (%)	4	
Flexural Strength (MPa)	111	ASTM D790
Flexural Modulus (MPa)	2810	
Notched Izod Impact Strength (J/m)	18	ASTM D256
Unnotched Izod Impact Strength (J/m)	220	ASTM D4812
<b>Heat Deflection Temperature (°C)</b>		ASTM D648
@ 0.45 MPA	119	
@ 1.82 MPA	94	
<b>Co-efficient of Thermal Expansion (µ/m°C)</b>		ASTM E831
<T <sub>g</sub>	84	
>T <sub>g</sub>	177	
Glass Transition (T <sub>g</sub> )	110°C	ASTM E1640
Shore Hardness	84D	ASTM D2240
Water Absorption (%)	0.26	ASTM D570

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