

## Figure 4 MED-AMB 10

### Biocompatible Rigid

A rigid, amber material for applications requiring biocompatibility, translucency and/or thermal resistance



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

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