

**AXIS M-120**

**MEDICAL GRADE ADHESIVE**

**TECHNICAL DATA**

**Product Description**

Axis M-120 is a high viscosity resin system designed for industrial adhesive applications. This two part epoxy is easily mixed, cures at room temperature and provides high peel resistance and shear strengths. Once cured it is resistant to an extensive range of chemicals and is stable over a wide temperature range.

APPLICATIONS	FEATURES	RECOMMENDED SUBSTRATES	BIOCOMPATIBILITY
<ul style="list-style-type: none"> <li>Industrial adhesive</li> <li>Potting</li> </ul>	<ul style="list-style-type: none"> <li>Long work life</li> <li>Room temp cure</li> <li>Impact and peel resistant</li> <li>Thermal shock resistant</li> </ul>	<ul style="list-style-type: none"> <li>Metals</li> <li>Plastics</li> <li>Ceramics</li> </ul>	<ul style="list-style-type: none"> <li>ISO 10993 cytotoxicity</li> </ul>

UNCURED PROPERTIES*		
Property	Value	Test Method
Solvent Content	No Non-reactive Solvents	N/A
Appearance, Pt A:B	Off White Light Amber	N/A
Mix Ratio by Volume, Pt A:B	2:1	N/A
Composition, Pt A:B	Epoxy : Amine	N/A
Specific Gravity, Pt A	1.16	TFTEST002
Specific Gravity, Pt B	1.0	TFTEST002
Viscosity, cps, Pt A	130,000- 170,000	TFTEST001
Viscosity, cps, Pt B	3,000- 4,000	TFTEST001

CURED MECHANICAL PROPERTIES*		
Property	Value	Test Method
Durometer Hardness, Shore D	80	TFTEST012
Moisture Resistance	Excellent	N/A
Lap Shear Strength, Al/Al, psi	4,800	N/A
Tensile Strength, psi	5,900	N/A
Dielectric Strength, kV/mm	25	N/A
Elongation at Break, %	40	N/A

CURE SCHEDULE*		
Property	Value	Test Method
Operating Temperature Range, C	-60 to 150	N/A
Pot Life @ 25C, min	120	N/A
Cure Time @ 25C, hr	48	N/A
Cure Time @ 65C, hr	2	N/A

**Storage:**

Store material in cool, dry location at a temperature between 10°C to 28°C. Keep from freezing. Refer to packaging specific quote for shelf life information. Consult MSDS for safe handling recommendations.

**ISO - 10993**

An ISO 10993 test protocol is an integral part of the quality program for Axis M-120. Axis M-120 has been qualified to Resin Designs, LLC ISO 10993 protocol as a means to assist in the selection of products for use in the medical device industry.

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