

AXIS M-2

IMPACT RESISTANT EPOXY ADHESIVE

TECHNICAL DATA

Product Description

Axis M-2 is a medium viscosity epoxy resin system designed for adhesive and laminating applications in accordance with Title 21. U.S. Code of Federal Regulations, Food and Drug Administration (FDA) Chapter 1, Sub Part B, Sections 175, 105 and 175,300. This two-part epoxy is easily mixed, cures at room temperature and provides high strength bonds to a wide variety of substrates. Once cured it is resistant to a wide range of chemicals, provides low permeability to gases and vapors, and is an excellent electrical insulator.

APPLICATIONS	FEATURES	RECOMMENDED SUBSTRATES	BIOCOMPATIBILITY
<ul style="list-style-type: none"> Industrial adhesive Medical and food grade instrument/packaging repair Laminating 	<ul style="list-style-type: none"> Long work life Room temperature cure Impact and peel resistant Thermal shock resistant 	<ul style="list-style-type: none"> Metals Plastics Ceramics Glass 	<ul style="list-style-type: none"> ISO 10993 cytotoxicity

UNCURED PROPERTIES*		
Property	Part A: Resin	Test Method
Solvent Content	No non-reactive Solvents	N/A
Chemical Class, Pt A:B	Epoxy : Amine	N/A
Appearance, Pt A:B	Clear : Amber	N/A
Specific Gravity, Pt A:B	1.16 : 0.99	TFTEST002
Viscosity, cps, Pt A	12,000 - 13,000	TFTEST002
Viscosity, cps, Pt B	13,000 - 16,000	TFTEST001

CURED MECHANICAL PROPERTIES*		
Property	Value	Test Method
Mix Ratio by Volume, Pt A:B	1:1	N/A
Durometer Hardness, Shore D	78	TFTEST012
Moisture Resistance	Excellent	N/A
Tensile Strength, psi	7,400	N/A
Dielectric Strength, V/mil	435	N/A
Elongation, %	10	N/A

OTHER CURED PROPERTIES*		
Property	Value	Test Method
Operating Temperature Range, C	-60 to 120	N/A
Pot Life @ 25C, min	120	N/A
Cure Time @ 25C, hr	24	N/A
Cure Time @ 85C, hr	2	N/A

Storage:

Store material in cool, dry location at a temperature between 10°C to 28°C. Keep from freezing. Material is sensitive to UV and visible light. 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-2. Axis M-2 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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