

Axis M-2

Technical Data Sheet

Axis M-2 is a medium viscosity epoxy resin system designed for medical and general 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. Axis M-2 complies with the Limit of Volatile Organic Compounds content in adhesives (GB 33372-2020) National Standard of the People's Republic of China.

APPLICATIONS	FEATURES	SUBSTRATES
<ul style="list-style-type: none"> Industrial Adhesive 	<ul style="list-style-type: none"> Biocompatible per ISO 10993-5 	<ul style="list-style-type: none"> Various Plastics and Metals
<ul style="list-style-type: none"> Laminating 	<ul style="list-style-type: none"> Long Work Life 	
<ul style="list-style-type: none"> Medical and Food Grade Instrument/Packaging Repair 	<ul style="list-style-type: none"> Room Temperature Cure 	
	<ul style="list-style-type: none"> Impact and Peel Resistant 	
	<ul style="list-style-type: none"> Thermal Shock Resistant 	

Typical Properties of Uncured Material*

Chemical Class	Epoxy : Amine
Color (Part A / Part B)	Clear : Amber
Viscosity, Part A @25°C, Spn7 @20RPM, cps	11,000 – 15,000
Viscosity, Part B @25°C, Spn7 @20RPM, cps	12,000 – 18,000
Specific Gravity Part A	1.16
Specific Gravity Part B	0.98
Mix Ratio, PBV (A:B)	1 : 1
Cleanup Solvent	Isopropyl alcohol

Cure Guidelines*

Work Life of 100 grams @ RT, minutes	120
Gel Time of 100 grams @ RT, minutes	180
Cure Time @ RT, hours	24
Cure Time at 85°C, hours	2

Typical Properties of Cured Material*

Durometer, Shore D	78
Elongation, %	<10%
Tensile Strength, MPa, [psi]	38 [5,600]
Lap Shear Strength, Al / Al, psi	750
Lap Shear Strength, PCB / PCB, psi	130

***All properties given are typical values and are not intended for use in preparing specifications.**

Storage

Keep stored between 8°C and 28°C in tightly sealed containers away from direct sunlight. Keep from freezing. Please refer to product labeling for shelf life information. Consult SDS for safe handling recommendations.



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Resin Designs 11 State Street, Woburn, MA 01801

www.resindesigns.com

781-935-3133