

Technical Data:

Issued: Sept. 2006
Revision 3: Nov. 2021, Page: 1

EP 502MD/EPC 502MD

Two Component Semi-Flexible Epoxy Compound

Product Description

EP 502MD/EPC 502MD is a two-component easy-to-use semi flexible epoxy compound for potting and encapsulating. EP 502MD designed for protection electronic components and systems

Features & Benefits

- Easy-to-use
- Room temperature cured
- Good mechanical properties
- Semi-flexible
- Moderate viscosity

Applications

Encapsulation and potting of electrical and electronic components.

Typical Uncured Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Base Resins	EP 502MD (A) EPC 502MD Fast(B)	Epoxy Resin Modified Polyamide
Appearance/Color	A B	Black Amber
Viscosity, per ASTM-D-2196, mPa*s @25°C	A B Mixed A+B	9000-13000 2000-4000 4000-6000
Density, g/cm³ @ 25°C	A B	1.16 1.0
Mix Ratio (A:B)	By weight By volume	100:86 1:1

Instructions for use:

Weigh required amount of resin EP 502MD and hardener EPC 502MD into a clean container in the recommended ratio. Blend thoroughly being careful to scrape sides and bottom of the container for 3-4 minutes to ensure uniform mixture. To produce a void-free casting, the mixture should be deairing at 2-5mmHg for 5-7 minutes to remove trapped air.

Cure Schedule:

Curing 16-24 hr @RT, or 3-4 hr @ RT+ 4 hr @60°C

Technical Data:

Issued: Sept. 2006
Revision 3: Nov. 2021, Page: 1

EP 502MD/EPC 502MD

Two Component Semi-Flexible Epoxy Compound

CURED PROPERTIES	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.	
Mechanical	Color	black
	Gel-time @ 25°C, (100g), min	30
	De-mold @ 25°C, hr	24
	Final curing @ 25°C, days	7
	Hardness, Shore D (after 7 days)	78
	Tensile Strength, MPa	41
	Tensile Elongation (at max), %	4.2
	Heat Distortion Point, °C	35
	Service Temperature, °C	-40 to 90

Storage and Handling

The shelf life of the EP 502MD is 12 months at 20-35°C.
For the best results, store in tightly closed original containers.
Certain resins and hardeners are susceptible to crystallization. If crystallization occurs, warm the container to 50-60°C until the crystals have dissolved.
Stir and allow content to cool to room temperature before use.

Limitation of Liability

Except where prohibited by law, Polymer-G and seller will not be liable for any loss or damage arising from the Polymer-G product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.