

Technical Data:

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EP 502/EPC 140

Low Viscosity Casting Epoxy

Product Description

EP 502/EPC 140 is a two-component unfilled low viscosity, room temperature curing epoxy compound for general- purpose casting and encapsulating, exhibiting high insulating properties together with high adhesion to various materials

Features & Benefits

- Low viscosity
- High adhesion

• RT cured

- High penetration
- Low water permeability

Applications

Electrical and electronic potting and encapsulation

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 502 (A) EPC 140 (B)	epoxy polyamide
Appearance/Color	A B	clear yellowish
Viscosity @ 25°C, mPa*s per ASTM-D2196-15	A B	500 – 700 12000-15000
Density , @ 25°C g/cm ³	A B	$1.10 \pm 0.02 \\ 0.98 \pm 0.02$
Mix Ratio A:B, (w/w)	-	100:50
Mix Viscosity @ 25°C, mPa*s per ASTM-D-2393		1800-2400
Work life, @ 25°C, min		180-240
Gel-time, 100g @ 25°C, min		230-250

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Typical Cured Properties

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Final Curing @ 25°C, days	7
Hardness, ASTM-D-2240, Shore D	78-82
Tensile Strength, ASTM-D-638, MPa	40-43
Tensile Elongation, ASTM-D-638, %	4-5
Flexural Strength, ASTM-D-790, MPa	65-70
Flexural Modulus, ASTM-D-790, MPa	1700-1900
Lap Shear Strength, Al/Al, ASTM-D-1002, MPa	19-21
Heat Distortion Point, °C	56

Storage and Handling

The shelf life of the EP 502 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.

Packaging

Packaging sizes are available from 1L up to 18L pails.

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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.

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