

Technical Data:

Issued: October 2006
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EP 502 (502BK)/EPC 800

Low Viscosity Epoxy Compound for general use

Product Description

EP 502 (502BK)/EPC 800 is a low viscosity, unfilled, RT curing epoxy compound for general- purpose casting, potting and encapsulating.

Features & Benefits

- low viscosity
- RT cured
- low water uptake
- suitable for manual and automatic mixing
- high penetration
- high electrical insulation

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.

Epoxy Hardener	EP 502/EPC 502BK EPC 800	epoxy amine mixture
Appearance/Color	A B	colorless/black clear
Viscosity @ 25°C, mPa*s	A B	500-700 10-15
Density, @ 25°C g/cm ³	A B	1.10 ± 0.02 0.98 ± 0.02
Mix Ratio A:B, (w/w)		100:45÷50
Pot life, @ 25°C, min		20-30
Gel-time, 100g @ 25°C, min		30-60
Mix Viscosity@ 25°C		200-300

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Final Curing @ 25°C, days	7
Hardness, ASTM-D-2240, Shore D	78
Tensile Strength, ASTM-D-638, MPa	34
Tensile Elongation, ASTM-D-638, %	2.5
Flexural Strength, ASTM-D-790, MPa	58
Flexural Modulus, ASTM-D-790, MPa	2400
Service Temperature °C	-40-90

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.

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.