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**Technical Data:**
Issued: Sept. 2006
Revision 3: Dec. 2018, Page: 1

# EP 502BK/EPC 502BK

Two Component Semi-Flexible Epoxy Compound

**Product Description**

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

**Features & Benefits**

- Easy-to-use
- Room temperature cure
- High electrical insulation
- Semi-flexible
- Low viscosity
- High penetration

**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.**

| | | |
|---|---|---|
| **Appearance/Color** | EP 502BK (A)<br>EPC 502BK (B) | black<br>yellowish |
| **Viscosity** @25°C per ASTM-D-2196, mPa*s | A<br>Mixed A+B | 700<br>200 |
| **Density**, g/cm$^3$ @ 25°C | A<br>B | 1.1<br>1.0 |
| **Mix Ratio (A:B)** | | 100:50 |

**Instructions for use:**

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

**Cure Schedule:**

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

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|---|---|---|
| **Processing** | **Color** | black |
| | **Pot-life** @ 25°C**,** (100g), min | 10-15 |
| | **Gel-time** @ 25°C**,** (100g), min | 20 |
| **Cured properties** | **Hardness**, Shore D | 78 |
| | **Tensile Strength,** MPa | 18-22 |
| | **Tensile Elongation** (at max), % | 4.0-4.5 |
| | **Flexural Strength,** MPa | 26-30 |
| | **Flexural Modulus,** MPa | 800-1000 |
| | **Service Temperature**, °C | -40 to 90 |

**Storage and Handling**

The shelf life of the EP 502BK 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.

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