

## Technical Data:

Issued: June 2015

Revision: Feb.2018, Page: 1

## EP 170XL/EPC 170XL

Clear Low Viscosity Room Temperature Curing Epoxy

### Product Description

EP 170XL/EPC 170XL is a clear, unfilled, low viscosity two component room temperature curing epoxy compound with high penetration capability, suitable for prolong pot life application.

### Features & Benefits

- Low viscosity
- RT cured
- Good wetting capabilities
- Long pot life
- High penetration
- Can be pigmented easily

### Applications

Manufacturing of Glass/Epoxy or Carbon/Epoxy composite parts using Resin Transfer Molding, wet lay-up and infusion processes at low to moderate temperature

### 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.

|  |                                       |  |
|--|---------------------------------------|--|
| <b>Base Resins</b>                                   | Base (A)<br>Hardener (B)              | Epoxy Resin Mixture<br>Polyetheramine &<br>Cycloaliphatic Amines |
| <b>Appearance/Color</b>                              | Base (A)<br>Hardener (B)              | Clear<br>Clear   |
| <b>Viscosity @25°C,</b><br>per ASTM-D-2393,<br>mPa*s | Base (A)<br>Hardener (B)<br>Mixed A+B | 700-900<br>40-50<br>300-400                                      |
| <b>Density@ 25°C, g/cm<sup>3</sup></b>               | Base (A)<br>Hardener (B)              | 1.15 ± 0.03<br>0.95 ± 0.03                                       |
| <b>Mix Ratio (A:B)</b>                               | By weight<br>By volume                | 100:33<br>100:40   |

## Technical Data:

Issued: June 2015  
Revision: Feb.2018, Page: 2

## EP 170XL/EPC 170XL

Clear Low Viscosity Room Temperature Curing Epoxy

### Typical Cured Properties

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

|   |           |
|---|-----------|
| <b>Pot-life @ 25°C, min</b>               | 80-100    |
| <b>Gel-time, 100g @ 25°C, hr</b>          | 3-4       |
| <b>De-mold @ 25°C, hr</b>                 | 24        |
| <b>Final curing @ 25°C, days</b>          | 7         |
| <b>Hardness, ASTM-D-2240, Shore D</b>     | 80-85     |
| <b>Tensile Strength, ASTM-D-638, MPa</b>  | 65-73     |
| <b>Tensile Elongation, ASTM-D-638, %</b>  | 4-5       |
| <b>Flexural Strength, ASTM-D-790, MPa</b> | 90-120    |
| <b>Flexural Modulus, ASTM-D-790, MPa</b>  | 2600-3200 |
| <b>HDT, (0.45MPa), °C</b>                 | 75-80     |

### Storage

The shelf life of the EP 170XL 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 to 25L containers

### 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.