

**Technical Data:**

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**EP 170/EPC 304IP**

Clear Low Viscosity Room Temperature Curing Epoxy

**Product Description** EP 170/ EPC 304IP is a clear, unfilled low viscosity, two component epoxy compound with high penetration capability.

- Features & Benefits**
- Low viscosity
  - Long pot life at RT
  - Excellent mechanical properties
  - High temperature resistance
  - Easily pigmented

**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) Hardener (B)	Epoxy Resins Amines
<b>Appearance/Color</b>	Base (A) Hardener (B)	Clear Clear
<b>Viscosity @25°C, mPa*s</b> ASTM-D-2393	Base (A) Hardener (B)	800-1200 40-80
<b>Density @ 25°C, g/cm<sup>3</sup></b>	Base (A) Hardener (B)	1.17 ± 0.05 0.98 ± 0.05
<b>Mix Ratio A:B, (w/w)</b>		100:40
<b>Mix Viscosity @25°C, mPa*s</b> ASTM-D-2393		250-350
<b>Work life, @ 25°C, min</b>		60-90
<b>Gel-time, 100g @ 25°C, min</b>		550-650

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<b>Curing Schedule</b>	24hr/25°C + 9hr/60°C or 24hr/25°C + 5hr/100°C
<b>Hardness, ASTM-D-2240, Shore D</b>	75-90
<b>Tensile Strength, ASTM-D-638, MPa</b>	40-50
<b>Tensile Elongation, ASTM-D-638, %</b>	3.0-3.5
<b>Flexural Strength, ASTM-D-790, MPa</b>	91-95
<b>Flexural Modulus, ASTM-D-790, MPa</b>	2400-2600
<b>HDT, (0.455MPa), ASTM D-648, °C</b>	40-50
<b>Service Temperature, °C</b>	-40 to 90

**Storage and handling**

The shelf life of the EP 170 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**

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