

Technical Data:

Issued: Sept. 2019
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EP 170

Clear Low Viscosity Room Temperature Curing Epoxy

Product Description

EP 170 is a clear, unfilled low viscosity, two component epoxy compound with high penetration capability.

Features & Benefits

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

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.

Base Resins	EP 170 EPC 124	EP 170 EPC 304IP
Appearance/Color	Clear Clear	Clear Clear
Viscosity @25°C, mPa*s ASTM-D-2393	800-1200 40-80	800-1200 50-70
Density @ 25°C, g/cm ³	1.17 ± 0.05 0.98 ± 0.05	1.17 ± 0.05 0.98 ± 0.05
Mix Ratio A:B, (w/w)	100:28	100:40
Mix Viscosity @25°C, mPa*s ASTM-D-2393	250-350	250-350
Gel-time, 100g @ 25°C, min	30-50	550-650

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Curing Schedule	24hr/25°C + 4hr/60°C or 8hr/25°C + 8hr/60°C	24hr/25°C + 9hr/60°C or 24hr/25°C + 5hr/100°C
Hardness, ASTM-D-2240, Shore D	80-85	75-90
Tensile Strength, ASTM-D-638, MPa	50-70	40-50
Tensile Elongation, ASTM-D-638, %	3-6	3-5
Flexural Strength, ASTM-D-790, MPa	90-120	90-100
Flexural Modulus, ASTM-D-790, MPa	2700-3300	2400-2600
Service Temperature, °C	-40 to 90	-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

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.