

Technical Data:

Issued: October 2006
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EP 71/EPC 304IP 2

Low Viscosity Semi-flexible Room Temperature Curing Epoxy

Product Description

EP 71/EPC 304 IP2 is a low viscosity, two component, room temperature curing, semi-flexible epoxy compound with high thermal shock resistance

Features & Benefits

- Low viscosity
- Suitable for manual and automatic mixing
- Low water permeability
- Semi-flexible
- High insulation properties

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.

Base Resins	Base (A) Hardener (B)	Epoxy Resin Amines
Appearance/Color	A B	Clear/Black/Blue Clear/Yellowish
Viscosity @ 25°C, mPa*s per ASTM-D-2196	A B	500-900 50-100
Density, g/cm ³ @ 25°C	A B	1.1 1.0
Mix Ratio A:B, (by weight.)		100:36
Mix Viscosity @ 25°C, mPa*s per ASTM-D-2196		250-400
Work life* @ 25°C, min		55
Gel-time, 90-100g @ 25°C, min		60-120

*) The time required for viscosity to double

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Curing @ 25°C, hr	48
Final Curing @ 25°C, days	>7
Hardness, ASTM-D-2240, Shore D (after 7days)	76
Tensile Strength, ASTM-D-638, MPa	33
Tensile Elongation, ASTM-D-638, %	4
Flexural strength, ASTM-D-790, MPa	47
Flexural Modulus, ASTM-D-790, MPa	1255
Service Temperature, °C	-40 to 100

Storage and Handling

The shelf life of the EP 71 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.