POLYMER G

Technical Data:
Issued: Nov.2006
Revision 3: May 2022, Page: 1

Resin EP 169
Hardeners EPC 800, EPC 69/74

Product Description

EP 169 is a clear low viscosity epoxy resin. It is suitable in high performance applications as coating, composites, electronic and electrical insulation, exhibiting high mechanical electrical properties. The resin can be applied with various curing agents depending on customer requests.

Features & Benefits

- Low viscosity
- RT cured
- Excellent mechanical properties
- High penetration
- Flexible pot life
- Low water permeability

Applications

Potting and encapsulation 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.**

	EP 169 resin	HARDENERS	
		EPC 800	EPC 69/74
Color	transparent	clear	light yellow
Viscosity @25ºC, mPa*s	1800-2200	10-15	100
Density@ 25ºC, g/cm^3	1.14	1.0	1.0

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Processing

Resin EP 169	**HARDENERS**	
	EPC 800	**EPC 69/74**
Mix Ratio, w/w	100:45	100:30
Mix Viscosity@ 25°C**,** mPa*s	200-500	500-800
Gel Time @ 25°C, (100g), min	25-45	16-25

Cured Properties

Typical Curing Schedule	24hr/RT	24hr/RT
Hardness, Shore D	78-85	78-85
Linear Shrinkage, %	0.4	0.3
Tensile Strength, MPa	35-60	55-70
Tensile Elongation, %	1-4	1-4
Flexural Strength, MPa	65-90	100-120
Flexural Modulus, MPa	1900-3000	2000-3100
Heat Distortion Point, °C	45-55	50-70

Storage and Handling

The shelf life of the EP 169 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.

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