

## Technical Data:

Issued: Nov.2006

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## EP 174S/EPC 174

### Epoxy Compound with Adjustable Flexibility

#### Product Description

EP 174S/EPC 174 is a two-component epoxy compound, permitting the user to select desired flexibility/hardness. The compound is suitable for potting, sealing and cementing of plastics, metals, ceramics and rubber. EP 174 displays good low temperature stability and cracking resistance down to -55°C. The compound can be applied in various mixing ratio, depending on customer requests.

#### Features & Benefits

- Adjustable Flexibility
- Good mechanical properties
- High adhesion
- Cracking resistance at low T
- Moderate pot life
- VOC free

#### Applications

Potting, casting and encapsulating of electric and electronic devices and 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 174S (A)	EPC 174 (B)
Color/appearance	black	amber
Viscosity @25°C, mPa*s,	22000-30000	11000-14000
Specific weight @25°C, g/cm <sup>3</sup>	1.6	1.0

#### Instructions for use:

Premix the EP 174S prior to use in the original container.  
Weigh required amount of resin and hardener into a clean container in the recommended ratio. Blend thoroughly being careful to scrape sides and bottom of the container for 3-4 minutes to ensure uniform mixture.  
To produce a void-free casting the mixture should be deairing at 2-5 mmHg for 5-8 minutes to remove trapped air.  
Pour the mixture into mold.

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Processing		Mixing Ratio A:B	
		A:B = 100:50	100:100
	Mix Viscosity @ 25°C, mPa*s	16000-20000	13000-18000
	Gel Time @ 25°C, (100g), min	80-110	70-100

Cured Properties	Typical Curing Schedule	24hr/RT	24hr/RT
	Hardness, Shore A/D	D78-82	A75-80
	Tensile Strength, kg/cm <sup>2</sup>	210-220	40-50
	Elongation, %	10-14	40-50
	Lap Shear Strength, Al/Al, kg/cm <sup>2</sup>	120-140	n.d.
	Operating temperature, °C	-55 ÷ +90	

### Storage and Handling

The shelf life of the EP 174S 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.