POLYMERIG

Technical Data: Issued: Nov.2006	EP 174/EPC 174	
Revision 1: Apr.2018, Page: 1	Epoxy Compound with Ad	justable Flexibility
Product Description	EP 174/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	• Cracking resistance at low T
	• Good mechanical properties	• Moderate pot life
	• High adhesion	• RT cured
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 representat or typical only and should not be used for specification purposes.	

	EP 174 (A)	EPC 174 (B)
Color	black or beige	amber
Viscosity @25°C, mPa*s,	22000-30000	11000-14000
Specific weight @25°C, g/cm ³	1.6	1.0

Instructions for use:Premix the EP 174 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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Epoxy Compound with Adjustable Flexibility

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Processing		Mixing Ratio A:B (w/w)	
		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 ²	210-220	40-50
	Elongation, %	10-14	40-50
	Lap Shear Strength, Al/Al, kg/cm ²	120-140	n.d.
	Operating temperature, °C	-55 ÷ +90	

Storage and Handling	The shelf life of the EP 174 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 or
	1:1 300ml duo-pack cartridges
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.