POLYMER G

Technical Data:
Issued: Nov.2006
Revision 1: July 2017, Page: 1

EP 501/EPC 140

Semi-rigid Epoxy Adhesive for general purpose

Product Description

EP 501/EPC 140 is a two-component unfilled semi-rigid epoxy adhesive. The compound displays excellent adhesion to metals and ceramics. EP 501 is non-corrosive to metals and designated for protecting electronic components and systems. It has thermal shock resistance over a medium range of temperatures**.**

Features & Benefits

- Good mechanical properties
- High chemical resistance
- High adhesion
- Adjustable Flexibility
- Long pot life

Applications

Potting, casting and sealing of electrical and electronic devices

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 (A)	**Hardener (B)**
Color/appearance	colorless	amber
Viscosity @25ºC, mPa*s,	12000-16000	15000-25000
Specific weight @25ºC, g/cm^3	1.14	1.0

Instructions for use:

Weigh required amount of Part A and Part B 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.

Polymer Gvulot Ltd.
Kibbutz Gvulot, 85525 ISRAEL
Tel.: +972 (0)8 9987931, Fax.: +972 (0)8 9965286
Mail: info@polymer-g.com
http://www.polymer-g.com

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Processing

	Mixing Ratio A:B (by vol.)	
	2:1	**1:1**
Mix Viscosity@ 25°C**,** mPa*s	13000-18000	14000-20000
Gel Time @ 25°C, (100g), min	144	139

Cured Properties[*)]

Typical Curing Schedule	24hr/RT	24hr/RT
Hardness, Shore D	D84	D78
Tensile Strength, kg/cm^2	627	500
Elongation, %	4.8	4.3
Flexural Strength, kg/cm^2	1100	850
Flexural Modulus, kg/cm^2	26800	21500
Operating temperature, °C	-55 ÷ +90	

*) Measured after 7 days at RT

Storage and Handling

The shelf life of the EP 501 and EPC 140 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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