POLYMER G

Technical Data: Issued: May 2020

EP 140LV/EPC 9 Revision 1: May 2020, Page: 1 High Thermal Conductivity Epoxy Compound

Product Description

EP 140 is a highly filled potting/encapsulating epoxy compound, exhibiting high thermal conductivity, low thermal expansion and excellent electrical insulating properties.

Features & Benefits

- High thermally conductive
- Low thermal expansion
- Excellent insulating properties
- Long pot life
- Snap-cured at elevated temperature
- Low cure shrinkage

Applications

Encapsulation of electrical and electronic devices and components, where high heat dissipation and low thermal expansion are needed

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 140LV (base)	EPC 9 (hardener)
Appearance/Color	Black/Red	Beige
Density , g/cm ³	2.2	1.1
Viscosity @25°C, mPa*s	15000-25000	140-250
Mix Ratio, (by weight)	100:4.8	

Instructions for use (manual mixing):

Warm EP 140 LV to 40-50°C and stir contents thoroughly before withdrawing material.

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 de-airing at 2-5 mmHg for 5-8 minutes to remove trapped air.

Pour the mixture into mold.

Preheating the mold reduces viscosity of the mixture and improves its flow. Further de-airing in the mold may be required.

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Processing	Pot-life , 100g @ 25°C, hr	4-6	
	Recommended Curing Schedule	4hr@80°C +4hr@120°C+4hr@150°C	
Typical Cured Properties	Hardness, ASTM-D-2240, Shore D	85-95	
	Linear Shrinkage, ASTM-D 25566-86, %	0.8	
Storage	The shelf life of the EP 140LV is 12 months at 16-35°C. For the best results, store in tightly closed original containers. The hardener is susceptible to crystallization. If crystallization occurs, warm the container to 40-50°C until the crystals have dissolved. Allow content to cool to room temperature before use.		
Packaging	Packaging sizes are available from 0.5L to 25L containers		
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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