

Technical Data:

Issued: Nov.2022
Revision 1 Nov. 2022 Page: 1

EP 140S/ EPC 304IP

Highly filled potting and encapsulating compound

Product Description EP 140S is a highly filled potting/encapsulating epoxy compound, exhibiting high thermal conductivity, low thermal expansion and excellent electrical insulating properties. EP 140S can be used with a variety of curing agents.

- Features & Benefits**
- High thermal conductivity
 - Excellent insulation properties
 - Non-magnetic
 - Flexible pot life
 - High temperature resistance
 - Low VOC

Applications Encapsulation of electrical and electronic devices and components, where high heat dissipation, low thermal expansion and non-magnetic properties 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.

Compound EP 140S	
Appearance/Color	Black
Viscosity@25°C, mPa*s	40000-60000
Density@ 25°C, g/cm³	2.2-2.3
Equivalent Weight (calc.), g/eq	700-800

Instructions for use: Warm EP 140S 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 deairing 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 deairing in the mold may be required.

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Revision 1 Nov. 2022 Page: 2 **Highly filled potting and encapsulating compound**

Processing	Compound EP 140S	EPC 304IP
	Mix Ratio, w/w	100:11.1
Mix Ratio, v/v	100:25	
Mix Viscosity @ 25°C, mPa*s	1800-3000	
Gel Time @ 25°C, (100g), min	450-550	
Typical Curing Schedule	24hr/RT	
Hardness, Shore D	90	
Service Temperature, °C	-40÷ 130	

Storage and Handling The shelf life of the EP 140S 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.

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