

Technical Data:

Issued: Jan.2023 Revision 3 Jan. 2023 Page: 1

EP 720

High dielectric performance epoxy compound

Product Description

EP 720 is a low viscosity epoxy-based material designed primarily for potting, sealing, and encapsulation of sensitive electronic components that required high dielectric performance such as dielectric breakdown strength, volume resistivity, Etc. The EP 720 is a low viscosity, self-extinguishing UL rating of HB compliance which displays high physical performances that makes it a good choice for a variety of applications.

Features & Benefits

- High dielectric properties.
- Suitable for manual and automatic mixing
- Room temperature curing.
- Low viscosity

Fast cure

 Self-extinguishing UL-HB Compliance 3.0 mm width

Applications

Electrical and electronic potting and encapsulation.

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 Resin	Epoxy Resin Mixture (Two component)
Appearance/Color	Yellowish liquid
Viscosity@25ºC, mPa*s	Base resin 9000-12000cp Curing agent 3000-5000cp
Density@ 25ºC, g/cm³	Base resin - 1.02 Curing agent - 1.06
Hardness, ASTM D2240, SHOR D	78
Gel time; @ 25°, ASTM D3532, min	40
Heat Distortion Point, ASTM D648, °C	50
Shear strength of single lap (Aluminum on aluminum), ASTM D1002, PSI	740
Dielectric breakdown strength, ASTM D149, Kv/mm	31

Tel.: +972 (0)8 9987931, Fax.: +972 (0)8 9965286

Mail: info@polymer-g.com http://www.polymer-g.com



Dielectric breakdown voltage, ASTM D149, Kv	37
Volume resistivity, ASTM D257, ohm-cm	1.44E+16
Surface resistivity, ASTM D257, ohm-	1.90E+16
Dielectric constant, ASTM D150	3.9 @ 1 KHz 4.10@100Hz
Dissipation Factor, ASTM D150	0.0087 @ 1 KHz 0.0049 @100Hz
UL Rating - HB	Compliance

Storage and Handling

The shelf life of the EP 720 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

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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