

EPO-TEK[®] H35-175MPLV

Technical Data Sheet

For Reference Only

Thermally and Electrically Conductive Epoxy

Date: Rev: No. of Components: Mix Ratio by Weight: Specific Gravity: Pot Life: Shelf Life- Bulk: Shelf Life- Syringe:

July 2019 VII Single N/A 2.65 28 Days One year at -40°C Six months at -40°C

Recommended Cure: 180°C / 1 Hour

Minimum Alternative Cure(s): May not achieve performance properties listed below 165°C / 1.5 Hours

NOTES:

• Container(s) should be kept closed when not in use.

• Filled systems should be stirred thoroughly before mixing and prior to use.

• Performance properties (rheology, conductivity, others) of the product may vary from those stated on the data sheet when bi-pak/syringe packaging or post-processing of any kind is performed. Epoxy's warranties shall not apply to any products that have been reprocessed or repackaged from Epoxy's delivered status/container into any other containers of any kind, including but not limited to syringes, bi-paks, cartridges, pouches, tubes, capsules, films or other packages.

• Complies with the requirements of MIL-STD 883/Method 5011.

Product Description: EPO-TEK® H35-175MPLV is a single component, silver-filled epoxy for hybrid die and component attach. It is a lower viscosity version of EPO-TEK® H35-175MP.

Typical Properties: Cure condition: 180°C / 1 Hour Different batches, conditions & applications yield differing results. Data below is not guaranteed. To be used as a guide only, not as a specification. * denotes test on lot acceptance basis

Cilver	
	-
	cPs
≥ 100	°C (Dynamic Cure: 20-300°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
47	x 10 ⁻⁶ in/in°C
190	x 10 ⁻⁶ in/in°C
75	
1,864	psi
≥ 10	Kg 3,556 psi
330	°Č
0.04	%
0.06	%
0.19	%
< 280	°C (Intermittent)
	psi
,	Na ⁺ : < 50 ppm
	K ⁺ : < 50 ppm
	microns
IES:	
1.5	W/mK
≤ 0.0005	Ohm-cm
N/A	
N/A	
	190 75 1,864 ≥ 10 330 0.04 0.06 0.19 < 280 494,899 CI:: < 200 ppm NH₄+: 65 ppm ≤ 20 IES: 1.5 ≤ 0.0005 N/A

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EPO-TEK[®] H35-175MPLV Advantages & Suggested Application Notes:

- Performs exceptionally well as a die attach for small chips such as GaAs, LEDs and diodes.
- Capable of resisting 260°C green reflow process, low outgassing in hermetic lid-seal processes near 300°C, and organic burn-in up to 150°C/1000 hours storage.
- Certified to MIL-STD 883/Test Method 5011.
- Capable of JEDEC Level II die-attach packaging on die-paddles and lead-frames.
- Widely used epoxy; popular choice for silver-filled epoxies; opto-packaging, hybrids, and many types of substrates including kovar, ceramic and BT.
- Available in many different viscosity alternatives contact Technical Services at <u>techserv@epotek.com</u> for best recommendation.
- Designed for improved flow for smaller needle gauge dispensing, or stamping operations.