

Date:	November 2019		Recommended Cure: 150°C / 1 Hour
Rev:	XI		
No. of Components:	Two		Minimum Alternative Cure(s):
Mix Ratio by Weight:	1:1		May not achieve performance properties listed below
Specific Gravity:	Part A: 2.51	Part B: 3.56	150°C / 10 Minutes
Pot Life:	36 Hours		120°C / 20 Minutes
Shelf Life- Bulk:	One year at room temperature		100°C / 1 Hour

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.

Product Description: EPO-TEK® H20F is a two component, flexible silver epoxy. It was designed for flexible type circuitry, such as switching circuits in a flexible panel system, as well as large die-attach or substrate attach.

Typical Properties: Cure condition: 150°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

PHYSICAL PROPERTIES:		
* Color (before cure):	Part A: Silver	Part B: Silver
* Consistency: Smooth thixotro		opic paste
* Viscosity (23°C) @ 100 rpm:	1,500 - 3,000	cPs
Thixotropic Index:	4.0	
* Glass Transition Temp:	≥ 20	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (CTE):		
Below Tg	: 10	x 10 ⁻⁶ in/in°C
Shore A Hardness:	46	
Lap Shear @ 23°C:	N/A	
Die Shear @ 23°C:	≥ 2	Kg 711 psi
Degradation Temp:	384	°C
Weight Loss:		
@ 200°C	: 0.51	%
@ 250°C	: 0.78	%
@ 300°C	: 1.79	%
Suggested Operating Temperature:		°C (Intermittent)
Storage Modulus:	21,153	psi
* Particle Size:	≤ 45	microns
ELECTRICAL AND THERMAL PROPER	TIFS	
Thermal Conductivity:	/ 1	W/mK
* Volume Resistivity @ 23°C.	< 0.0001	Ohm-cm
	⊒ 0.0001	

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EPO-TEK[®] H20F Advantages & Suggested Application Notes:

- Flexible alternative to EPO-TEK[®] H20E, designed to offer lower stress, less cracking, and more flexibility.
- Rheology provides a very soft, smooth, thixotropic paste. No solvents are present.
- A film suitable for Kapton or Mylar can be flexed 180 degrees and creased without delamination or loss of conductivity; can be used instead of conductive silicone RTVs.
- Can be applied by screen printing, stamping, roller coating techniques; or hand applied.
- Recommended for fiber-optic packaging. Also suggested for bonding SAW devices, as a low stress adhesive. Applications or end-use could be speaker or microphone circuit related.
- Hybrid level die attach epoxy capable of resisting wire bonding operations. Also, lid sealing operations will not affect bonded chips in the package.
- Suggested as a low stress conductive adhesive for large die sizes, as well as oversized components or substrates.