



Manufacturer:

Epoxy Technology

Product Name:

EPO-TEK® 383ND High Temperature Epoxy, Heat Cure (4g)

Manufacturer Part Number:

ET383ND-4G

Click here for more details on the EPO-TEK® 383ND High Temperature Epoxy, Heat Cure (4g)



EPO-TEK® 383ND

Technical Data Sheet For Reference Only High Temperature Epoxy

Date: February 2022 Rev:

No. of Components: Two Mix Ratio by Weight: 10:1 Specific Gravity:

Part A: 1.20 Part B: 0.99 8 Hours

Shelf Life- Bulk: One year at room temperature Shelf Life- Syringe: One year at -40°C

Recommended Cure: 150°C / 1 Hour

Minimum Alternative Cure(s):

May not achieve performance properties listed below

90°C / 30 Minutes

NOTES:

Pot Life:

- 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
- Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters

Product Description: EPO-TEK® 383ND is a two component, high temperature, electrically and thermally insulating epoxy. Designed as a longer pot life version of EPO-TEK® 353ND.

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: Clear	Part B: Slightly yellow
* Consistency:	Pourable liquid	
* Viscosity (23°C) @ 50 rpm:	3,500 - 6,000	cPs
Thixotropic Index:	N/A	
* Glass Transition Temp:	≥ 100	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (CT	E):	
Below	Tg: 34	x 10 ⁻⁶ in/in°C
Above	Tg: 129	x 10 ⁻⁶ in/in°C
Shore D Hardness:	88	
Lap Shear @ 23°C:	> 2,000	psi
Die Shear @ 23°C:	≥ 20	Kg 7,112 psi
Degradation Temp:	415	°C
Weight Loss:		
@ 200	°C: 0.28	%
@ 250	°C: 0.42	%
@ 300	°C: 0.86	%
Suggested Operating Temperature:	< 350	°C (Intermittent)
Storage Modulus:	369,039	psi
* Particle Size:	≤ 20	microns

ELECTRICAL AND THERMAL PROPERTIE	S:	
Thermal Conductivity:	N/A	
Volume Resistivity @ 23°C:	$\geq 3 \times 10^{13}$	Ohm-cm
Dielectric Constant (1KHz):	2.59	
Dissipation Factor (1KHz):	0.008	

OPTICAL PROPERTIES @ 23°C	:	
Spectral Transmission:	≥ 90% @ 520-1660	nm
Refractive Index:	1.5715 @ 589	nm

Epoxies and Adhesives for Demanding Applications™

This information is based on data and tests believed to be accurate. Epoxy Technology, Inc. makes no warranties (expressed or implied) as to its accuracy and assumes no liability in connection with any use of this product.

Contact the professionals at Fiber Optic Center for a quote or to get more details.





Manufacturer:

Epoxy Technology

Product Name:

EPO-TEK® 383ND High Temperature Epoxy, Heat Cure (4g)

Manufacturer Part Number:

ET383ND-4G

Click here for more details on the EPO-TEK® 383ND High Temperature Epoxy, Heat Cure (4g)



EPO-TEK® 383ND

Technical Data Sheet For Reference Only High Temperature Epoxy

EPO-TEK® 383ND Advantages & Suggested Application Notes:

- · Built in color change from clear to dark amber when cured properly.
- · Long 8 hour pot life allows for use over an entire shift.
- Capable of high performance in fiber optic applications; designed to meet Telecordia 1221.
- Strong transmission in the near IR; optimal for sealing fiber to ferrules, transmitting light in the optical pathways from 800-1,500 nm.
- Commonly used for fiber component packaging such as alignment of optics, environmental sealing of opto-electronic packages and V-groove arrays.
- Used for pot fiber optic bundles into ferrules for light guides and endoscopes.
- Used as dielectric layer in fabrication of capacitors and laminating PZT piezoelectrics such as those found in ink-jetting devices.
- Structural grade epoxy found in hard disk drives. Applications include anti-disk and voice coil sealing.
- Low viscosity allows for wicking and capillary dispensing.

Epoxies and Adhesives for Demanding Applications™

This information is based on data and tests believed to be accurate. Epoxy Technology, Inc. makes no warranties (expressed or implied) as to its accuracy and assumes no liability in connection with any use of this product.