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Manufacturer:
Epoxy Technology

Product Name:
EPO-TEK® 353NDT Thixotropic High Temperature Black Epoxy, Heat Cure (8oz)

Manufacturer Part Number:
ET353NDTBLK-8OZ

▶ Click here for more details on the EPO-TEK® 353NDT Thixotropic High Temperature Black Epoxy, Heat Cure (8oz)



EPO-TEK® 353ND-T Black

Technical Data Sheet
For Reference Only

High Temperature Thixotropic Epoxy

Date: June 2022
Rev: XIV
No. of Components: Two
Mix Ratio by Weight: 10 : 1
Specific Gravity: Part A: 1.12 Part B: 1.02
Pot Life: 3 Hours
Shelf Life- Bulk: One year at room temperature
Shelf Life- Syringe: Six months at -40°C

Recommended Cure: 150°C / 1 Hour

Minimum Alternative Cure(s):
May not achieve performance properties listed below
150°C / 1 Minute
120°C / 5 Minutes
100°C / 10 Minutes

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.
- Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters.
- Black color is cosmetic only, and not intended to be photonic, spectral, or lampblack. All users need to confirm its opacity versus wavelength.

Product Description: EPO-TEK® 353ND-T Black is a two component, high temperature, thixotropic epoxy for fiber optic, PCB and various medical applications.

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: Black	Part B: Amber	
* Consistency:	Smooth thixotropic paste		
* Viscosity (23°C) @ 20 rpm:	9,000 - 15,000	cPs	
Thixotropic Index:	3.8		
* Glass Transition Temp:	≥ 90	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)	
Coefficient of Thermal Expansion (CTE):			
Below Tg:	43	x 10 ⁻⁶ in/in°C	
Above Tg:	231	x 10 ⁻⁶ in/in°C	
Shore D Hardness:	80		
Lap Shear @ 23°C:	> 2,000	psi	
Die Shear @ 23°C:	≥ 15	Kg	5,334 psi
Degradation Temp:	409	°C	
Weight Loss:			
@ 200°C:	0.53	%	
@ 250°C:	1.22	%	
@ 300°C:	2.37	%	
Suggested Operating Temperature:	< 325	°C (Intermittent)	
Storage Modulus:	559,120	psi	
* Particle Size:	≤ 20	microns	
ELECTRICAL AND THERMAL PROPERTIES:			
Thermal Conductivity:	N/A		
Volume Resistivity @ 23°C:	≥ 4 x 10 ¹²	Ohm-cm	
Dielectric Constant (1KHz):	3.21		
Dissipation Factor (1KHz):	0.003		
OPTICAL PROPERTIES @ 23°C:			
Spectral Transmission:	< 5 % @ 300-1460	nm	
	< 7 % @ 1550	nm	
Refractive Index:	N/A		

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

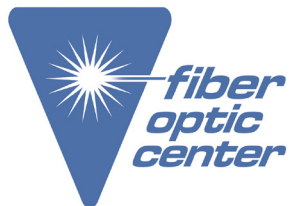
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Product specifications and data are subject to change without notice.



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High Temperature Thixotropic Epoxy

EPO-TEK® 353ND-T Black Advantages & Suggested Application Notes:

- This product is a color-coded, black and opaque version of the industry standard EPO-TEK® 353ND-T epoxy adhesive
- Suggested Applications:
 - Semiconductor, glob top DAM around IC's, using COB or DCA packaging formats
 - Electronics Assembly:
 - Insulating adhesive for bonding stainless steel metals, ceramics and carbon composites used in ink-jetting heads
 - Insulating and plugging wires and feed-through cables of automotive circuits
 - Hard Disk Drive – thixotropic staking and termination of Al and Cu coils
 - Adhesive for brushless motors and Cu coil windings
 - Optical:
 - Fiber optic component packaging: bonding fibers, active optics, metals, ceramics and plastic
- Available in alternative viscosities and color.

Epoxyes and Adhesives for Demanding Applications™

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