

Manufacturer: **Epoxy Technology**

Product Name:

EPO-TEK® 353ND High Temperature Epoxy, Heat Cure - Pre-Mixed and Frozen (3cc Syringe)

Manufacturer Part Number: ET353ND-3CC

Click here for more details on the EPO-TEK® 353ND High Temperature Epoxy, Heat Cure - Pre-Mixed and Frozen (3cc Syringe)



EPO-TEK® 353ND Technical Data Sheet For Reference Only High Temperature Epoxy

Date: Rev:	March 2023 XXXI			Recommended Cure: 150°C / 1 Hour			
No. of Components: Mix Ratio by Weight: Specific Gravity: Pot Life: Shelf Life- Bulk: Shelf Life- Syringe: NOTES:	Two 10 : 1 Part A: 1.20 ≤ 3 Hours One year at room Six months at -40°		Syringe : 1.18 Syringe : ≤ 2 Hours			Minimum Alternative Cure(s): May not achieve performance properties below 150°C / 1 Minute 120°C / 5 Minutes 100°C / 10 Minutes 80°C / 30 Minutes	
 Folles. 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 packaging. Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters. If product crystalizes in storage, place container in warm oven until crystallization disappears. TOTAL MASS SHOULD NOT EXCEED 25 GRAMS Product Description: EPO-TEK® 353ND is a two component, high temperature epoxy designed for semiconductor, hybrid, fiber optic, and medical 							
applications. It is one of the most popular EPO-TEK® brand products, and is known throughout the world for its performance and reliability. Also							
available in single component frozen syringe. Typical Properties: Cure condition: 150°C / 1 Hour Different batches, conditions & applications yield differing results.							
Date below is not guaranteed. To be used as a guide only, not as a specification. * denotes test on lot acceptance basis							
PHYSICAL PROPERTIE	S:						
* Color (before cure):		Part A: Clear		er < 5)	Part B: A	mber (Gardner < 18)	
* Consistency: * Viscosity (23°C) @ 50 r	mm.	Pourable liqu	. 5,000	cPs			
Thixotropic Index:	pin.	5,000	N/A	013			
* Glass Transition Temp: Coefficient of Thermal Expansion (CTE):			≥ 90 °C (Dynamic Cure: 2		amic Cure: 2	0-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)	
	Below Ta:		54	x 10 ⁻⁶ i	n/in°C		
	Above Tg:		206	x 10 ⁻⁶ i			
Shore D Hardness:	0		85				
Lap Shear @ 23°C:		>	2,000	psi			
Die Shear @ 23°C:			≥ 15		5,334 psi		
Degradation Temp:			412	°C			
Weight Loss:	@ 200°C:		0.22	%			
	@ 250°C:		0.39	%			
	@ 300°C:		0.87	%			
	uggested Operating Temperature:		< 350	°C (Intermittent)			
Storage Modulus:			08,298	psi			
Ion Content:			9 ppm	K⁺:	Ennm		
* Particle Size:		N⊓4. 40	9 ppm N/A	Γ.	5 ppm		
ELECTRICAL AND THERMAL PROPERTIES:							
Thermal Conductivity:			N/A				
Volume Resistivity @ 2							
Dielectric Constant (1KHz):		3.17					
Dissipation Factor (1KH			0.005				
OPTICAL PROPERTIES @ Spectral Transmission:	23.0:	> 50%	@ 550	nm			
		≥ 95% @ 110		nm			
		≥ 98% @ 80		nm			
Refractive Index (uncured)		1.5694	4 @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.

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EPO-TEK[®] 353ND Advantages & Suggested Application Notes:

- Reasonable pot-life that allows for low temperature curing to be realized. It has an amber color change upon cure.
- Passes NASA low outgassing standard ASTM E595 with proper cure http://outgassing.nasa.gov/
- Semiconductor suggested applications: wafer-wafer bonding of CSP; fabrication of MEMs devices; flip chip underfill.
- Hybrid suggested applications: providing near hermetic seals and UHV seals in sensor devices, resisting high temperature packaging.
 - Down-Hole petrochemical fiber optic sensors, resisting >200°C field conditions.
- Fiber optic adhesive designed to meet Telecordia 1221 suggested applications:
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 - Sealing fiber into ferrules, transmitting light in the optical pathway from 800- 1550 nm range.
 - Fiber component packaging; adhesive for active alignment of optics, environmental seal of opto-package, V-groove arrays.
- Electronics Assembly suggested applications:
 - Used as dielectric layer in the fabrication of capacitors; laminating PZT ferroelectrics found in ultrasound or ink-jetting devices.
 - Impregnating and insulating copper coil windings in motors and inductor coils. Bonding ferrite cores and magnets.
 - Structural grade epoxy found in hard-disk drive devices; bonding of SST metals, kapton, and magnets.

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