

*“Fiber-Optic  
Industry Standard”  
EPO-TEK® 353ND...  
...Now Available with  
Enhanced Levels of  
Performance*

Hybrid Chemistry Adhesives For Optoelectronics



#### UV Hybrid Adhesive Benefits

- Overall process improvement
- Lower stress and less shrinkage
- Easier handling
- Tack free in 10-20 seconds
- 85°C/85%RH resistance, comparable to 353ND

For specific application advice, contact  
Technical Services at: [techserv@epotek.com](mailto:techserv@epotek.com).



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**NEW!**

**A New Level of  
UV Hybrid Adhesive  
Performance from**





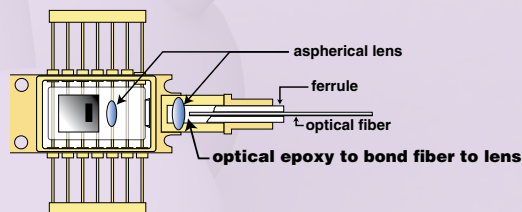
# EPO-TEK® Epoxy/UV Hybrid Adhesives



	Traditional Epoxy		NEW! 353ND Modified Epoxy/UV Hybrid				
	353ND		HYB-353ND-LV	HYB-353ND	HYB-353ND-HV	HYB-353ND-TX2	HYB-353ND-TX3
	Industry GOLD Standard		Low viscosity, fast tack	Viscosity match of 353ND	Higher viscosity version	Thixo version TI = 1.6	Thixo version TI = 1.3
<b>Mix Ratio</b>	10 to 1		100 to 5	10 to 1	100 to 5	100 to 3	100 to 3
<b>Viscosity (@10 rpm)</b>	4,000 cPs		1,172 cPs	4,225 cPs	11,019 cPs	25,310 cPs	34,962 cPs
<b>Pot Life</b>	<3 hrs		20 hrs	2 hrs	2 hrs	2 days	2 days
<b>Tg (°C)</b>	≥90		83	109	116	105	89
<b>Cure Condition</b>	150°C/1 hr		UV 10 sec @ 100mW/cm <sup>2</sup> +150°C/30min	UV 20 sec @ 100mW/cm <sup>2</sup> +150°C/30min	UV 10 sec @ 100mW/cm <sup>2</sup> +150°C/30min	UV 10 sec @ 100mW/cm <sup>2</sup> +150°C/30min	UV 10 sec @ 100mW/cm <sup>2</sup> +150°C/30min
			Lower temperature cures (≥80°C ) are possible depending upon application				
<b>Degradation Temp (°C)</b>	412		400	400	388	410	399
<b>Weight Loss</b>	0.22%		0.08%	0.06%	non detectable	0.05%	0.19%
<b>Die Shear (kg)</b>	30.6		19	24	28	17	18
<b>Spectral Transmission</b>	≥95% @ 1100-1600nm ≥98% @ 800-1000nm		≥95% @ 1100-1600nm ≥98% @ 800-1000nm	≥95% @ 1100-1600nm ≥98% @ 800-1000nm	≥95% @ 1100-1600nm ≥98% @ 800-1000nm	≥95% @ 1100-1600nm ≥98% @ 800-1000nm	≥95% @ 1100-1600nm ≥98% @ 800-1000nm
<b>*Index of Refraction</b>	1.5694		1.5221	1.5547	1.5556	†N/M	†N/M

\* uncured at 589nm  
† not measured

### Typical UV Hybrid Application Butterfly Type LD Module



### Process Improvement

**Align → Hold/Tack → Final Processing (with Heat)**

- Higher throughput
- Easier handling
- Tack Free in 10-20 seconds
- 85°C/85%RH resistance, comparable to 353ND

