

**NEW!**

# ***Next Generation*** **Hybrid Chemistry Adhesives** **for Optoelectronics**

Taking the "Industry Standard"  
**EPO-TEK® 353ND** to New Levels of Performance



**EPOXY**  
**TECHNOLOGY**

*Innovative Epoxy Adhesive Solutions for Over 45 Years™*

[www.EPOTEK.com](http://www.EPOTEK.com)

# EPO-TEK® Epoxy/UV Hybrid Adhesives



## Traditional Epoxy

## Modified Epoxy/UV Hybrid

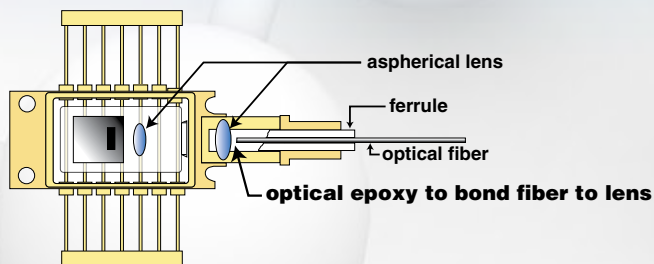
	353ND	113-91-5	113-114-4	113-114-1
	<b>Industry GOLD Standard</b>	Low viscosity, fast tack	Viscosity match of 353ND	Higher viscosity version
<b>Mix Ratio</b>	10 to 1	20 to 1	10 to 1	20 to 1
<b>Viscosity (@10 rpm)</b>	4,000 cPs	1,434 cPs	4,915 cPs	11,878 cPs
<b>Pot Life</b>	< 3 hrs	20 hrs	< 3 hrs	5 hrs
<b>Tg (°C)</b>	107	87	107	111
<b>Minimum cure</b>	150°C/5min	UV 10 sec @ 100mW/cm2 +150°C/10min	UV 20 sec @ 100mW/cm2 +150°C/10min	UV 10 sec @ 100mW/cm2 +150°C/10min
<b>Degradation Temp (°C)</b>	419	365	399	388
<b>Weight loss</b>	0.08%	0.07%	non detectable	non detectable
<b>Die shear (kg)</b>	30.6	28.6	30.7	28.3
<b>Spectral Transmission</b>	>98% @ 800-1600nm	>98% @ 800-1600nm	>98% @ 800-1600nm	>98% @ 800-1600nm
<b>*Index Of Refraction</b>	1.5694	1.5221	1.5259	1.5538

\* uncured at 589nm

## Hybrid Adhesive Benefits

- Overall process improvement
- Higher thru-put
- Easier handling
- Tack Free in 10-20 seconds
- 85°C/85%RH resistance comparable to 353ND

## Butterfly Type LD Module



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

For additional information, please visit us at: [www.epotek.com](http://www.epotek.com), or email our Technical Services Group at: [techserv@epotek.com](mailto:techserv@epotek.com)

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# EPOXY TECHNOLOGY

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