

## Preliminary Product Information Sheet

### EPO-TEK<sup>®</sup> UD1355 (formerly 100-135-5)

*Note: These are typical properties to be used as a guide only, not a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results.*

<b>Date:</b>	June 2017	<b>Rev:</b>	V
<b>Material Description:</b>	Optically clear UV curable adhesive and encapsulant designed to resist discoloration during solder reflow processing.		
<b>Number of Components:</b>	Single		
<b>Mix Ratio by Weight:</b>	N/A		
<b>Specific Gravity:</b>	1.16		
<b>Pot Life:</b>	N/A		
<b>Shelf Life:</b>	One year at room temperature		

Recommended Cure	
<b>Iron-Doped Mercury Flood Lamp</b>	<b>&gt; 90 sec.</b> <i>100 mW/cm<sup>2</sup> @ 240-365 nm</i>
Alternative Cures*	
Iron-Doped Mercury Spot Lamp	> 6 min.
365nm LED Flood Lamp	> 90 sec.
Pulsed Mercury Lamp	> 6 min.
<b>UV Cure is complete after 24 hours from UV Exposure</b>	
* Contact Technical Services for application-specific variations	

**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 Products 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.

**MATERIAL CHARACTERISTICS:** Cure Condition: Varies as required

**PHYSICAL PROPERTIES:**

<b>Color (before cure):</b>	Colorless	
<b>Consistency:</b>	Pourable liquid	
<b>Viscosity (23°C) @ 100 rpm:</b>	447 cPs	
<b>Glass Transition Temp:</b>	36 °C (Dynamic Cure:20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min)	
<b>Shore D Hardness:</b>	77	
<b>Die Shear @ 23°C:</b>	19.6 Kg	6,969.8 psi
<b>Degradation Temp:</b>	292 °C	
<b>Weight Loss:</b>	<b>@ 200°C</b>	2.85 %
	<b>@ 250°C</b>	5.80 %
	<b>@ 300°C</b>	10.97 %
<b>Suggested Operating Temperature:</b>	< 225 °C (Intermittent)	
<b>Particle Size:</b>	N/A	

**OPTICAL PROPERTIES @ 23°C:**

<b>Spectral Transmission:</b>	≥ 99% @ 360-780 nm
	≥ 96% @ 800-2,200 nm
<b>Refractive Index (uncured):</b>	1.4925 @ 589 nm

**The data above is INITIAL only - it may be changed at anytime, for any reason without notice to anyone. It is provided only as a guide for evaluation/consideration.**

\*These material characteristics are typical properties that are based on a limited number of samples/batches. All properties are based on the cure indicated above. Some properties may vary as manufactured quantities are scaled up to commercialized production levels.