



## Preliminary Product Information Sheet

### **EPO-TEK® OD1551 (formerly 121-155-1)**

*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.*

**Date:** February 2019  
**Rev:** II  
**No. of Components:** Single  
**Mix Ratio by Weight:** N/A  
**Specific Gravity:** 1.24  
**Pot Life:** 28 Days  
**Shelf Life:** One year at -40°C

**Recommended Cure: 130°C / 30 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.

**Product Description:** EPO-TEK® OD1551 is an optically opaque epoxy. It is specially designed as the fill component for dam and fill applications in combination with EPO-TEK® OD1361 dam formulations. It can be used for adhesive, sealing and encapsulation applications in semiconductor, electro-optics, fiber optics, circuit assembly, medical and scientific/OEM industries as well as for blocking out light in opto-packages.

#### **MATERIAL CHARACTERISTICS\*:**

<b>PHYSICAL PROPERTIES:</b>		<b>Cure condition: 130°C / 30 Minutes</b>	
Color (before cure):		Black	
Consistency:		Pourable liquid	
Viscosity (23°C) @ 50 rpm:		2,519	cPs
Thixotropic Index:		N/A	
Glass Transition Temp:		166	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-220°C @20°C/Min)
Coefficient of Thermal Expansion (CTE):	Below Tg:	54	x 10 <sup>-6</sup> in/in°C
	Above Tg:	142	x 10 <sup>-6</sup> in/in°C
		86	
Shore D Hardness:		14.5	Kg
Die Shear @ 23°C:		395	°C
Degradation Temp:			
Weight Loss:	@ 200°C:	0.05	%
	@ 250°C:	0.17	%
	@ 300°C:	0.67	%
Suggested Operating Temperature:		< 350 °C (Intermittent)	
Particle Size:		≤ 10	microns

**The data above is INITIAL only - it may be changed at any time, 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.