

Epoxy Technology EPO-TEK® OG133-8 UV Cure Optical Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Material Description: A single component, UV curable, thixotropic flexible epoxy adhesive/encapsulant designed for semiconductor and opto-electronic packaging. Glob top over IC and wire bonds, and low stress bonding of fiber optic components, are common applications. It is a replacement for EPO-TEK® OG133-5, and a non-flow version of EPO-TEK® OG133-7. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-OG133-8-UV-Cure-Optical-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	
Particle Size	<= 10 µm	<= 10 µm	
Viscosity	1000 - 1500 cP @Temperature 23.0 °C	1000 - 1500 cP @Temperature 73.4 °F	100 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	65	65	
Tensile Modulus	0.00689 GPa	1.00 ksi	Storage

Thermal Properties	Metric	English	Comments
CTE, linear	43.0 µm/m-°C	23.9 µin/in-°F	Below Tg
	222 µm/m-°C	123 µin/in-°F	Above Tg
Maximum Service Temperature, Air	150 °C	302 °F	Continuous
	250 °C	482 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	<= 10.0 °C	<= 50.0 °F	Post-Cure Dynamic Scan 20200°C; Ramp -40200°C @ 20°C/Min
Decomposition Temperature	353 °C	667 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
Refractive Index	1.505	1.505	
	@Wavelength 589 nm	@Wavelength 589 nm	

Optical Properties	$\geq 90\%$ Metric	$\geq 90\%$ English	Comments
	@Wavelength 640 nm	@Wavelength 640 nm	
	$\geq 95\%$	$\geq 95\%$	Spectral
	@Wavelength 900 nm	@Wavelength 900 nm	

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Cloudy/Colorless	before cure
Consistency	Smooth thixotropic paste	
Number of Components	Single	
Thixotropic Index	3.1	
Weight Loss	2.37%	200°C
	3.64%	250°C
	5.72%	300°C

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