

# Epoxies, Ect. 20-3302

Epoxies; Epoxide

Epoxies, Etc.

## Message:

20-3302 is a two component, ultra clear epoxy system. It provides excellent optical transmission along with outstanding adhesion and electrical properties. This high purity grade polymer system is formulated with proprietary ultraviolet protectors to minimize yellowing of the cured epoxy. This adhesive\potting compound, when UV aged in a QUV Weatherometer, outperforms other commercially available epoxy systems.

20-3302 is a low viscosity system designed for L.E.D. encapsulating, fiber optics, and any potting or adhesive application requiring optimum clarity. This epoxy system also provides a bubble free and glass smooth finish.

20-3302NCLV is a lower viscosity version of 20-3302. Both resins utilize the same curing agent.

Features:

- Low viscosity
- Water clear
- Outstanding electrical properties
- Bubble free castings

General Information		
Features	Good Adhesion	
	High Clarity	
	Low Viscosity	
Uses	Adhesives	
	LEDs	
	Optical Applications	
Appearance	Clear/Transparent	
Processing Method	Encapsulating	
	Potting	
Thermal	Nominal Value	Unit
CLTE - Flow (30 to 90°C)	6.2E-5	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index	1.564	
Transmittance		
0.300 μm	90.0	%
0.310 μm	98.0	%
Thermoset	Nominal Value	Unit
Thermoset Mix Viscosity (25°C)	500	cP
Additional Information	Nominal Value	Unit
Operating Temperature	-45.0 to 135	°C
Uncured Properties	Nominal Value	Unit
Color	Clear/Transparent	
Mix Ratio by Weight (PBW)		

Part A	100	
Part B	50	
Mix Ratio by Volume (PBV)		
Part A	100	
Part B	60	
Density		
25°C <sup>1</sup>	0.958	g/cm <sup>3</sup>
25°C <sup>2</sup>	1.10	g/cm <sup>3</sup>
Curing Time		
125°C	1.0 to 2.0	hr
23°C	24	hr
Pot Life (25°C)	30 to 45	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	85	
Lap Shear Strength	15.5	MPa
Electric Strength	20	kV/mm
Relative Permittivity (25°C)	3.10	
Volume Resistivity	> 3.5E+14	ohms·cm
NOTE		
1.	Part B	
2.	Part A	

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