

# 20-3238

## WATER CLEAR OPTICAL GRADE EPOXY

### DESCRIPTION:

20-3238 is a two-component high purity grade polymer epoxy system. Its low viscosity is ideal for filling small cavities.

20-3238 has excellent adhesion to metals, plastics, ceramics, glass, copper, and aluminum.

This system is designed for L.E.D. encapsulating, fiber optic applications and any potting application requiring the optimum clarity for inspection.

### FEATURES:

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

### TYPICAL PROPERTIES:

Viscosity, cps, 25 °C	
Resin	5,000
Cat. 140	10
Mixed	500
Color	Water Clear
Hardness, Shore D	78
Mix Ratio, (Resin to Catalyst)	
By Weight	100:30
By Volume	100:35
Operating Temperature Range, °C	-50 to +150
Pot life	45 minutes
Specific Gravity, 25 °C	
Resin	1.13
Catalyst	0.964
Compressive Strength, psi	14,000
Linear Shrinkage, in/in	0.006
Tensile Strength, psi	9,400
Dielectric Strength, V/mil	560
Dielectric Constant, 60 Hz	4.7
Dissipation Factor, 60 Hz	0.034
Volume Resistivity, ohm-cm	5.0 x 10 <sup>15</sup>



Thermal Conductivity, W/m <sup>2</sup> ·K	0.42
Coefficient of Thermal Expansion, ppm/°C	50
Index of Refraction	1.5403

**INSTRUCTIONS FOR USE:**

1. Thoroughly mix 20-3238RCL resin to Cat.140 catalyst according to ratios above.
2. Pour and cure according to one of the following recommended cure schedules:
  - a) 25 °C 18-24 hours
  - b) 60 °C 1-2 hours

**STORAGE, HANDLING, & SAFETY:**

Store both components at 25 °C in original containers. The expected shelf life is 12 months in original unopened containers.

Please read the Safety Data Sheet before using this or any other chemical.

**AVAILABILITY:**

This product is available in quarts and gallons.

**IMPORTANT:**

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