

20-3305

LOW VISCOSITY THERMAL SHOCK EPOXY

DESCRIPTION:

20-3305 is a two-part epoxy system formulated to meet the most critical electronic encapsulating requirements. This system has low shrinkage with excellent electrical properties. The low viscosity makes it ideal for potting, sealing, encapsulating, and casting applications.

20-3305 is ideal for thermal shock exposure. It has excellent adhesion to most substrates and forms a hermetic like seal to protect encapsulated parts. Great choice for high voltage applications.

TYPICAL PROPERTIES:

Viscosity, cps, 25 °C	
20-3305RTA/20-3305RBK Resin	100,000
20-3305CTB Catalyst	300
Mixed	5,000
Available Colors	Tan, Black
Gel Time, Minutes, 30 gram mass, 120 °C	50
Hardness, Shore D @ 25°C	70
Mix Ratio, By Weight	100:25
Operating Temperature Range, °C	-55 to +155
Specific Gravity	
20-3305RTA/20-3305RBK Resin	1.80
20-3305CTB Catalyst	1.03
Tensile Strength, psi	1,550
Tensile Modulus, Kpsi	39,155
Dielectric Strength, V/mil	1857
Dielectric Constant	
1 kHz	3.67
100 kHz	3.86
Dissipation Factor	
1 kHz	0.025
100 kHz	0.016
Volume Resistivity, ohm-cm	2.62×10^{16}
Surface Resistivity, ohms	4.49×10^{15}
Moisture Absorption, 24 Hours, %	0.14



INSTRUCTIONS FOR USE:

1. By weight, thoroughly mix 100 parts 20-3305RBK or -RTA resin to 25 parts 20-3305CTB catalyst.
2. Pour and cure according to one of the following recommended cure schedules:
 - a) 120 °C 4 Hours (recommended for optimum results)
 - b) 85 °C 16 Hours

STORAGE, HANDLING, & SAFETY:

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

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

AVAILABILITY:

This product is available in quarts, gallons, and 5-gallon pails.

IMPORTANT:

EPOXIES, ETC. MAKES NO EXPRESS OR IMPLIED WARRANTIES OR MERCHANTABILITY, FITNESS OR OTHERWISE WITH RESPECT TO ITS PRODUCTS. The information in this brochure is based on data obtained by our own research and is considered reliable. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. The properties given are typical values and are not intended for use in preparing specifications. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

10/2024