

60-7170RCL

UV ADHESIVE AND ENCAPSULATING RESIN

DESCRIPTION:

60-7170RCL is a one- component epoxy that cures with low intensity black light or high intensity UV lamps. 60-7170RCL is water clear and is designed to be used as an adhesive, coating, or encapsulant. This system is moisture and chemical resistant.

60-7170RCL is a good choice for potting and encapsulating applications due to its ability to deep section cure up to $\frac{3}{4}$ inch. Another unique and important feature is its ability to “dark cure.” Once exposed to UV light the 60-7170RCL will continue to cure in the absence of light. This is advantageous when potting or joining substrates with shadow areas. 60-7170RCL may also be heat cured as a secondary cure operation.

60-7170RCL is not affected by oxygen and will not have a sticky or greasy surface. The surface is rigid, smooth, and glossy when properly cured. 60-7170RCL bonds to metal, plastic, paper and ceramic.

Related Products: 60-7155RCL is a lower viscosity version of 60-7170RCL.

FEATURES:

- One component
- Excellent adhesion
- Contains no solvents
- Good electrical insulation
- Low shrinkage
- No out gassing
- Will shadow cure
- Good weathering resistance
- Cure is not inhibited by oxygen
- Low odor

TYPICAL PROPERTIES:

Viscosity, cps, 25 °C	4,500
Color	Water Clear
Hardness, Shore D	80
Operating Temperature Range, °C	-50 to +200
Solids Content, %	100
Specific Gravity, 25 °C	1.09



Dielectric Strength, V/mil	425
Glass Transition Temperature, °C	115
Moisture Resistance	Excellent
Spectral Transmission, Cured, > 95%	490 – 1610 nm
Tensile Strength, psi	6,200

CURE SCHEDULE:

UV Black Light, 40 watts, Minutes	15
UV 100 Spot Cure, Seconds	2 - 5
UV Cure Conveyor, Seconds	2 - 5
365nm LED Flood Lamp, Seconds	>30
1 cm distance, 25 Watts	

Cure speed depends upon the UV light source, thickness of material, distance from the light, and UV transmission of substrates.

Cure speed may be increased by warming material or substrate. Cure speed may also be increased by IR or conventional thermal oven after UV exposure.

STORAGE, HANDLING, SAFETY:

Store out of sunlight in the original container. Product shelf life under proper storage conditions is at least twelve months at temperatures no higher than 25 °C. Avoid exposing material to moisture.

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

AVAILABILITY:

60-7170RCL is available in 10 cc, 30 cc, and 55 cc syringes, and quarts, gallons, 5-gallon pails, and 55-gallon drums.

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.

06/2025