

Thermoset 945-6443 Adhesive

Description

LORD Thermoset 945-6443 adhesive is an amber-colored, one-component epoxy designed for a variety of electronics applications.

Features and Benefits

Chemically Resistant – provides excellent resistance to acids and strong bases.

Fast Cure – quickly cures at 150°C, leaving no pits or voids for a smooth surface.

Excellent Stability – provides excellent thermal stability; exhibits minimal flow during cure.

Application

Applying – Mount the syringe onto the dispensing equipment that has been thoroughly cleaned and purge adhesive through the system until an unbroken flow of adhesive is extruded. The system is now ready to begin dispensing.

Curing – Allow adhesive to cure for 1.5 minutes at 150°C, or for 2.5 minutes at 125°C, in an elevated temperature circulated air oven or on a hot plate.

This time-at-temperature profile refers to the time the material should be allowed to cure once it reaches the target temperature. Allowance should be made for oven ramp rates, parts with large thermal mass and other circumstances that may delay material actually reaching the target temperature.

Typical Properties*

Uncured

Appearance	Amber Paste
Viscosity, cps @ 25°C Spindle 5, 1 rpm	22,500-27,500
Specific Gravity	1.22

Cured

Volume Resistivity, ohm-cm @ 25°C	$>1 \times 10^{15}$
Glass Transition Temperature (T _g), °C by TMA	150
Hardness Shore D	85
Lap Shear Strength, MPa Al-Al	>12.4
Dielectric Strength, V/mil @ 25°C	>500

*Data is typical and not to be used for specification purposes.

LORD TECHNICAL DATA

Shelf Life/Storage

Shelf life is two months from date of manufacture when stored at 25°C in original, unopened container. Syringe must be maintained at 25°C in a vertical (upright) position with the dispense tip facing down. Do not store syringe on its side (horizontally).

Do not store containers outdoors or in non-ventilated exterior structures. Store product away from heat sources such as ovens or hot plates. Elevated storage temperatures will shorten product's shelf life.

Cautionary Information

Before using this or any LORD product, refer to the Material Safety Data Sheet (MSDS) and label for safe use and handling instructions.

For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use.

Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Support Center.

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