



741 A/B

Epoxy Adhesive

The epoxy formulation described herein was developed by our laboratory to meet a specific customer requirement. The values listed below are averages and they are not intended for specification purposes. Contact Lord when establishing specifications.

DESCRIPTION:

Thermoset 741 A/B is a medium viscosity, high strength, epoxy structural adhesive featuring rapid cure in thin films and a convenient mix ratio by volume. This material cures to a tough, high impact polymer, and provides exceptional adhesion to a wide variety of substrates. 741 A/B can also be used in small potting applications where minimal flow during cure is desired. See attached Surface Preparation sheet.

PHYSICAL PROPERTIES:

Appearance:

Viscosity at 25°C (77°F):

Density (lb/gal):

741 A

Translucent Syrup

50,000 cps

10.02

741 B

Light Amber Syrup

30,000 cps

9.57

MIX RATIO

By Weight:

By Volume:

1 part 741 A to 96 parts 741 B

1 part 741 A to 1 part 741 B

POT LIFE:

3-5 minutes in a 20 gram mass at room temperature (25°C/77°F)

CURE SCHEDULE:

Can be handled within 30 minutes at room temperature (25°C/77°F)

Full cure in 24 hours at room temperature (25°C/77°F)

TYPICAL CURED CHARACTERISTICS

Shore Hardness:

Tensile Shear Strength (Al/Al):

Tensile Strength:

Elongation:

Compressive Strength:

80D Minimum

2,000 psi

7,800 psi

3.5%

9,800 psi

TYPICAL ELECTRICAL PROPERTIES:

Dielectric Strength:

Volume Resistivity:

Dielectric Constant:

Dissipation Factor:

450 volts/mil

1.0×10^{13} ohm-cm

4.3 (10^3 Hz)

.034 (10^3 Hz)

HANDLING PRECAUTIONS:

The labels on containers of Thermoset materials contain current information on the hazards associated with each particular product. Most epoxy resins and hardeners are skin and eye irritants, and some may actually be corrosive to the skin and eyes. Other problems, such as skin sensitization or serious health hazards may exist. Further information on each product is contained in the Material Safety Data Sheet, which will be sent upon request.

Lord Corporation
111 Lord Drive
Cary, NC 27511 USA

Web Site: www.lord.com
Phone: 1-800-746-8343
1-317-259-4161
Fax: 1-317-252-8402

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