

10-3041

FAST CURING TOUGHENED EPOXY ADHESIVE

DESCRIPTION:

10-3041 is a toughened industrial grade epoxy adhesive. Once mixed, the adhesive forms structural bonds quickly and is tack free within thirty minutes. A 3,000-psi lap shear strength (aluminum to aluminum) is achieved within four hours.

10-3041 provides a unique combination of high lap shear strength, high peel resistance and impact endurance. Once fully cured, the epoxy adhesive is also resistant to a wide range of chemicals and solvents. The adhesive also offers higher heat performance than most fast-setting epoxies.

The medium viscosity of the 10-3041 allows for easy application. It is packaged in the easy-to-use TriggerBond® dispensing system. 10-3041 is low in odor and cures under a wide range of temperatures and humidity levels.

APPLICATIONS:

The high-performance epoxy adhesive forms excellent bonds to a wide variety of plastics and metals. It acts as an outstanding electrical insulator and therefore suitable for many electronic bonding applications.

FEATURES:

- Fast room temperature cure
- Low odor (no mercaptan functionality)
- Packaged in TriggerBond® system
- Forms strong bonds to a variety of substrates
- Electrically insulating
- Vibration and impact resistant

TYPICAL PROPERTIES:

Viscosity, 25°C, cps	
Resin	25,000
Hardener	7,000
Mixed	15,000
Mix Ratio, (Resin:Catalyst)	2:1
Color	
Resin	Off-White
Hardener	Clear
Mixed	Off-White
Hardness, Shore D	
25°C	80
60°C	60
Operating Temperature Range, °C	-40 to +135



Pot Life, 25°C, 5 grams	12 minutes
Specific Gravity, 25°C	
Resin	1.14
Hardener	1.09
Lap Shear Strength (Al to Al), psi	
After 4 hours	3,000
After 24 hours	3,450
Dielectric Strength, V/mil	440
Dielectric Constant, 25°C, 100Hz	5.3
Volume Resistivity, ohm-cm, 25°C	2.4×10^{12}

PREPERATION OF SURFACES:

Surfaces must be clean and grease free. Use an oil free solvent such as acetone to wipe surfaces. Adhesion can be substantially increased by abrading the surfaces to be bonded with emery cloth, sandpaper, carbide grinding tools, sand blasting, etc... A roughened, porous surface will produce the best results. Any oxidized metal films should be removed just prior to application of the epoxy adhesive mixture.

INSTRUCTIONS FOR USE:

1. This product is an adhesive and is not designed for potting and encapsulating applications. 10-3041 is a fast-reacting epoxy system and it will create a high exothermic temperature in large mass sizes (avoid mass sizes greater than 5 grams).
2. Dispense material from TriggerBond® cartridge. See TriggerBond® instruction sheet for specific guidance.
3. Apply mixed product to substrate to be bonded.
4. Join substrates within 3-5 minutes.
5. Cure according to one of the following schedules:
 - a) 25°C 2-4 hours
 - b) 65°C <10 minutes

STORAGE, HANDLING AND SAFETY:

Expected shelf life is 12 months. Store in a cool, dry place in original containers. Please read and understand Safety Data Sheet (SDS) before using this product.

AVAILABILITY:

10-3041 is available in the 2:1 TriggerBond® 50mL, 200mL, and 400mL dual barrel cartridges

IMPORTANT:

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