

Permatex[®] Zip Grip[®] TE 1000

Description:

A single component medium viscosity, rubber-toughened instant adhesive with exceptional impact resistance.

Intended Use:

Industrial Use: Bond wood, cork, leather, rubber to metal weatherstripping, audio speakers, PCB wire tacking

Features:

Bonds dissimilar substrates

Exceptional thermal shock performance

High impact resistance

Toughened Ethyl Medium Viscosity [Clear] Enhanced toughness to peel and shock loads

Humidity and water resistant

Cured 7 Days @ 75°F (24°C)

Adhesive Tensile Shear

Dielectric Constant

Dielectric Strenath

Flashpoint

Permanent

Temperature-resistant to 280°F (138°C)

Coefficient of Thermal Expansion (x10-6)

Limitations:

Suitability of product is determined by the end user for their application and process.

Not recommended for use on glass due to substrate weakness

Typical Physical Properties: Technical data should be considered representative or typical only and should not be used for specification purposes.

Typical Values

3,700 psi (25.5 MPa) 120 in/in.°F (216 cm/cm.°C) 5.4 @ 1KHz

295 volts/mil (11.6 kV/mm) @ 1KHz 185°F (85°C) 8 ft-lb/in2 (17 kJ/m2)

Impact Resistance Melting Point 329°F (165°C) Peel Strength 10 pli (1.75 N/mm) Refractive Index 1.49

Service Temperature Range

-65° to 280°F (-54 to 138°C) Solubility Nitromethane, Acetone Volume Resistivity 5.3E-14 ohm/cm

Uncured Properties @ 72°F (23°C)

Ethyl cyanoacrylate Color Colorless liquid

25-40 sec.(Steel); 25-50 sec.(Plastics); 20-50 sec. Cure Speed

Gap Filling 0.008" (0.2 mm) Military Specification MIL-A--46050C Type II Class 3

Shelf Life 1 year

Specific Gravity

8.85 lb/Gal (1.06 g/cm3) Viscosity 1,000 cP

Surface Preparation:

Clean surface by solvent-wiping any deposits of heavy grease, oil, dirt, or other contaminants. Surface can also be cleaned with industrial cleaning equipment such as vapor phase degreasers or hot aqueous baths.

---- CLEANING METHODS ----

Vapor degrease or cold-solvent clean (Sand blasting or other preparation is not typically required).

ALUMINUM:

Abrade with Scotch-Brite™ abrasive pads or steel wool, then clean with solvent.

Wipe clean with isopropyl alcohol or solvent.

Lightly abrade shiny, smooth surfaces, then solvent-wipe with suitable solvent such as 1,1,1-trichloroethane, acetone, or VM&P naptha. Non-shiny surfaces need only be solvent-wiped.

Mixing Instructions:

Mixing is not applicable to this product.

Application Instructions:

- 1. Apply adhesive directly from bottle (approximately 0.006 g/in2 (0.93 mg/cm2) is sufficient).
- 2. Press surfaces together
- 3. Hold tightly for a few seconds

Standard Tests

Adhesive Tensile Shear ASTM D 1002 Coef. of Thermal Expansion ASTM D 696 Dielectric Constant ASTM D 150 Volume Resistivity, ohm/cm ASTM D 149 Dielectric Strength, volts/mil ASTM D 149

ADDITIONAL PRODUCT INFORMATION

- Cyanoacrylates generally fixture in a few seconds on most smooth, close-fitting substrates.
- They cure best at room temperature 72°F (22°C)
- Heat does NOT accelerate the cure of Cyanoacrylates
- The gap of the bond line will affect set speed. Smaller gaps tend to increase the speed.
- Activators can be applied to improve set speed but may also impair overall performance

Storage:

Store in a cool, dry place.

Compliances:

CID A-A-3097, Type II Class 3

Chemical Resistance:

Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F (24°C)

1,1,1-Trichloroethane	Excellent
Gasoline (Unleaded)	Excellent
Hydrochloric 10%	Poor
Motor Oil	Excellent
Sodium Hydroxide 10%	Poor

Precautions:

FOR INDUSTRIAL USE ONLY: Please refer to the appropriate Safety Data Sheet prior to using this product.

Warranty:

ITW Performance Polymers will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

Order Information:

<u>Item No.</u> Package Size 72161 1 lb. kit

Contacts:

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Disclaimer:

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