TESTS CONDUCTED

Coef. of Thermal Expansion ASTM D 696

Dielectric Strength, volts/mil ASTM D 149

Volume Resistivity, ohm/cm ASTM D 149

Adhesive Tensile Shear ASTM D 1002

Dielectric Constant ASTM D 150



Permatex® Zip Grip® GPE 3

Description: A low-viscosity, moisture-curing, general purpose instant adhesive for tight-fitting parts

Intended Use: Bonding rubber weatherstripping, fixturing rubber gaskets, splicing o-rings, repairing plastics and metals

Product Fixtures in seconds features: Permanent Easy to apply

Highly resistant to aging and weathering

Limitations: 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.

Cured 7 days @ 75° F

3,200 **Adhesive Tensile Shear** 0.00012 in./in./°F Coefficient of Thermal Expansion 5.4 @ 1KHz **Dielectric Constant Dielectric Strength** 11.6 KV/mm 185°F **Flashpoint Melting Point** >329°F **Peel Strength** 2 pli **Refractive Index** 1.49

Service Temperature Range -65° to 200°F

Solubility Nitromethane, Acetone Volume Resistivity 5.3E-14 ohm/cm

Uncured

Base Ethyl cyanoacrylate
Color Colorless liquid

Cure Speed 5-10 sec. (Steel); 3-5 sec. (Plastics): <2 sec. (

Full Cure 24 hrs Gap Filling 0.003"

Military Specification Mil--A-46050C Type II Class 1

Shelf Life 1 year
Specific Gravity 1.06 g/cc
Viscosity 3 cps

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 ----

STEEL

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

ALLIMINI IM

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

RUBBER

Wipe clean with isopropyl alcohol or solvent.

PLASTICS:

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 .006 grams per sq. in. is sufficient).
- 2. Press surfaces together
- 3. Hold tightly for a few seconds

ADDITIONAL PRODUCT INFORMATION

- Cyanoacrylates generally fixture in a few seconds on most smooth, close-fitting substrates.
- They cure best at room temperature [72°F]
- 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 1

Chemical Resistance:

Rating chemical resistance is not necessary for this product.

Precautions:

Please refer to the appropriate material safety data sheet (MSDS) prior to using this product.

For technical assistance, please call 1-800-933-8266

FOR INDUSTRIAL USE ONLY

Warranty:

Devcon 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.

Disclaimer:

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Devcon makes no representations or warranties of any kind concerning this data.

Order Information:

70145 2 gm 70161 1 lb. 70144 14 gm