

Cellular PVC Adhesive

# Chem-Set™ TrimGrip

**Industrial Structural Adhesive Bonding System**

**Chemical Concepts, Inc.**

410 Pike Road  
Huntingdon Valley, PA 19006

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## TrimGrip™ PVC Instant Adhesive

**TrimGrip™ PVC** instant adhesive is a clear toughened ethyl cyanoacrylate adhesive. It is high in viscosity combined with excellent shock and impact resistance. It is specifically formulated for bonding wide range of substrates including metals, wood, plastics, leather, rubbers, ceramics, cardboard, etc.

**APPLICATIONS:**

- Ideal for wide variety of manufacturing and assembly of industrial parts.
- Ideal where alignment of parts is required.

**BONDING TIMES:**

|          |               |          |               |
|----------|---------------|----------|---------------|
| Plastics | 16-21 seconds | Rubbers  | < 11 seconds  |
| Steel    | 21-31 seconds | Leather  | 16-21 seconds |
| Aluminum | 13-19 seconds | Ceramics | 21-31 seconds |

MIL SPEC A 46050C Type II, Class 4

**PHYSICAL PROPERTIES**

**Liquid**

|                                  |                               |
|----------------------------------|-------------------------------|
| Composition                      | Toughened Ethyl Cyanoacrylate |
| Appearance                       | Colorless liquid              |
| Viscosity@ 25 °C, cps            | 9000-11000                    |
| Brookfield LVF, Spindle 1-60 rpm |                               |

**Cured Adhesive**

|                           |                         |
|---------------------------|-------------------------|
| Gap Filling               | 0.55 mm                 |
| Tensile Shear Strength    | 18-28 n/mm <sup>2</sup> |
| Service Temperature Range | -60 to +80 °C           |
| Full Cure                 | 24 hours                |
| Melting Point Temperature | 160 to 170 °C           |

**Shear Strength ASTM D 1002/DIN 53283**

|                    |                        |                 |                        |
|--------------------|------------------------|-----------------|------------------------|
| Grit Blasted Steel | > 20 N/mm <sup>2</sup> | Etched Aluminum | > 18 N/mm <sup>2</sup> |
| Rubbers            | > 22 N/mm <sup>2</sup> | Wood            | > 25 N/mm <sup>2</sup> |
| Polycarbonate      | > 12 N/mm <sup>2</sup> | ABS             | > 10 N/mm <sup>2</sup> |



**Chemical™  
Concepts**

Our expertise is your solution.

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**800.220.1966**

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## Physical Properties:

|                                                                                   |                       |
|-----------------------------------------------------------------------------------|-----------------------|
| Coefficient of thermal conductivity, ASTM C177, W.m <sup>-1</sup> K <sup>-1</sup> | 0.1                   |
| Glass Transition Temperature, ASTM E228,                                          | 120 °C                |
| Coefficient of thermal expansion, ASTM D696, K <sup>-1</sup>                      | 75 x 10 <sup>-6</sup> |

## Electrical Properties:

|                                       |                      |
|---------------------------------------|----------------------|
| Dielectric strength, ASTM D149, kV/mm | 25                   |
| Volume resistivity, ASTM D257, Ohm.cm | 1 x 10 <sup>16</sup> |
| Dielectric constant, 25 °C, ASTM D150 | 2.3                  |

## APPLICATION INSTRUCTIONS:

- All surfaces must be clean, dry, dust and grease free. Best result will be achieved with surfaces that have been lightly abraded immediately prior to bonding.
- If using accelerator apply to one component surface only. Apply thin film of adhesive to the other surface and bring the pieces together immediately. Hold for few seconds without disturbing the joints.
- When bonding "O" rings, cut a fresh surface onto each end of the rubber to gain the best possible strength.



## Chemical Concepts, Inc.

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### Emergency phone number:

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