

Palm Labs Adhesives Turbo Fuse Series 190 (4000 Viscosity) Rapid Bonding Adhesive

Category : Polymer , Adhesive , Thermoset , Acrylic/Cyanoacrylate Adhesive

Material Notes:

Palm Lab's Cyanoacrylate is a one component rapid bonding adhesive. TURBO FUSE SERIES 190 advanced formula is designed to polymerize instantly by absorbing surface moisture. The product's performance has been tested with a variety of materials, and is recommended for a multitude of applications. The fast curing qualities make it especially desirable in high speed industrial production. TURBO FUSE SERIES 190 is ideal for use in applications that require a relatively thick, viscous adhesive. It is also ideal for applications on vertical or angled surfaces. Because of the 4000 viscosity, it works especially well in poor fitting applications such as rough metal or ceramic repair, unfinished metal to metal bonding, and metal to rubber. This product is a very good, thick, almost gel like adhesive. Part Numbers for this data: 04-190, 10-190, 15-190, 20-190, 25-190, 30-190, 35-190 Soluble in Acetone, MEK, Amide, Methylene Chloride Information provided by Palm Laboratories Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Palm-Labs-Adhesives-Turbo-Fuse-Series-190-4000-Viscosity-Rapid-Bonding-Adhesive.php

| Physical Properties | Metric | English | Comments |
|---------------------|----------------|----------------|--------------|
| Specific Gravity | 1.05 g/cc | 1.05 g/cc | Liquid State |
| Viscosity | 3600 - 4400 cP | 3600 - 4400 cP | Liquid State |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------|----------|------------------------|
| Hardness, Barcol | 65 | 65 | Cured State |
| Shear Strength | 17.2 MPa | 2500 psi | Tensile, (Cured State) |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------------|--------------|-------------------------------------|
| Maximum Service Temperature, Air | 82.2 °C | 180 °F | Cured State |
| Softening Point | 149 °C | 300 °F | Cured State |
| Minimum Service Temperature, Air | -53.9 °C | -65.0 °F | Cured State |
| Flash Point | 76.7 - 93.3 °C | 170 - 200 °F | Liquid State (Tagliabue closed cup) |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-------------|
| Dielectric Constant | 3.33 | 3.33 | Cured State |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Shelf Life Processing Properties | 12.0 Month Metric | 12.0 Month English | Liquid State Comments |
|-------------------------------------|----------------------|-----------------------|--------------------------|
|-------------------------------------|----------------------|-----------------------|--------------------------|

| Descriptive Properties | Value | Comments |
|------------------------|---------------------|--------------------------------|
| Appearance | Clear liquid | Liquid State |
| | Clear-Hard | Cured State |
| Base compound (Resin) | Ethyl Cyanoacrylate | Liquid State |
| Gap Fill | 0.009" | Cured State |
| Material Set Up Time | <10 sec | Rubber to Rubber |
| | <25 sec | Aluminum to Aluminum |
| | <40 sec | Phenolic to Phenolic |
| | 30-50 sec | Steel to Steel |
| | 50-70 sec | Polycarbonate to Polycarbonate |

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