

Palm Labs Adhesives TURBO-LOCK SERIES 17-HT Anaerobic Thread Locking Compound

Category : Polymer , Adhesive , Thermoset , Methacrylate , Methacrylate Adhesive

Material Notes:

BEARING AND SHAFT - SERIES 17-HT is a fast curing, GREEN, high temperature, high strength, high viscosity, press fit, anaerobic retaining compound for bonding, sealing and retaining of cylindrical parts. It is highly resistance to high heat, vibrations, water, gases, oils, hydrocarbons and many chemicals. Applications: Ideal to fill gaps up to 0.015" Excellent for slip fitting parts. Withstands working temperatures up to 450°F Retaining sleeves, pulleys, gears, rotors and fans on shafts. Mounting sleeves, securing bushings, bearings and plugs in housing. Excellent retaining and sealing compound Part Numbers for this data: 17-001-HT, 17-010-HT, 17-050-HT, 17-250-HT, 17-1000-HT Information provided by Palm Laboratories Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Palm-Labs-Adhesives-TURBO-LOCK-SERIES-17-HT-Anaerobic-Thread-Locking-Compound.php

| Physical Properties | Metric | English | Comments |
|----------------------|-----------|-----------|------------------------|
| Specific Gravity | 1.16 g/cc | 1.16 g/cc | |
| Brookfield Viscosity | 8400 cP | 8400 cP | RVT Spindle 3 @ 20 rpm |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|---------------------------------------|--------------------------------------|--|
| Shear Strength | 13.0 - 15.0 MPa | 1890 - 2180 psi | ISO 10123; Compressive, Steel pins and collars |
| | @Temperature 22.0 °C, Time 108000 sec | @Temperature 71.6 °F, Time 30.0 hour | |
| | 17.0 - 19.0 MPa | 2470 - 2760 psi | ISO 10123; Compressive, Steel pins and collars |
| | @Temperature 22.0 °C, Time 86400 sec | @Temperature 71.6 °F, Time 24.0 hour | |

| Thermal Properties | Metric | English | Comments |
|------------------------|---------------|-------------------------------------|-----------|
| CTE, linear | 0.800 µm/m-°C | 0.444 µin/in-°F | ASTM D696 |
| Specific Heat Capacity | 0.300 J/g-°C | 0.0717 BTU/lb-°F | |
| Thermal Conductivity | 0.100 W/m-K | 0.694 BTU-in/hr-ft ² -°F | ASTM C177 |
| Flash Point | 33.9 °C | 93.0 °F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------|------------------|------------|
| Cure Time | 120 - 240 min | 2.00 - 4.00 hour | Functional |
| | 1440 min | 24.0 hour | Full |
| | 30.0 min | 0.500 hour | |

| Processing Properties | Metric @ Temperature -65.0 - 450 °C | English @ Temperature -85.0 - 842 °F | Handling Comments |
|-----------------------|---|--|----------------------|
| Shelf Life | 24.0 Month | 24.0 Month | |

| Descriptive Properties | Value | Comments |
|------------------------|--------------------------------|----------------------------------|
| Appearance | Green | |
| Chemical Resistance | 100% Initial Strength Retained | Ethanol at 22°C, at 500hrs |
| | 100% Initial Strength Retained | Motor Oil at 125°C, at 500hrs |
| | 100% Initial Strength Retained | Gasoline at 22°C, at 500hrs |
| | 100% Initial Strength Retained | Brake Fluid at 22°C, at 500hrs |
| | 100% Initial Strength Retained | Ethanol at 22°C, at 1000hrs |
| | 100% Initial Strength Retained | Motor Oil at 125°C, at 1000hrs |
| | 100% Initial Strength Retained | Gasoline at 22°C, at 1000hrs |
| | 100% Initial Strength Retained | Brake Fluid at 22°C, at 1000hrs |
| | 80% Initial Strength Retained | Water/Glycol at 87°C, at 1000hrs |
| | 85% Initial Strength Retained | Water/Glycol at 87°C, at 500hrs |
| | 90% Initial Strength Retained | Acetone at 22°C, at 1000hrs |
| | 95% Initial Strength Retained | Acetone at 22°C, at 500hrs |
| Composition | Urethane Methacrylate | |
| Gap Fill | 0.015" | |

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