

Palm Labs Adhesives TURBO SEAL SERIES 55 BROWN FINE THREADS THREAD SEALANT

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

Material Notes:

TURBO SEAL SERIES 65 is a high performance anaerobic thread sealant designed for the locking and sealing of metal threaded pipes and fittings. The product cures quickly in the absence of air between close fitting surfaces and provides pressure resistance immediately after application. It is ideal to seal against gases, water, LPG, hydrocarbons, oils and other chemicals. Excellent thixotropic property prevents migration of the sealant before and during curing. Applications: Ideal for locking and sealing of threaded metal pipes and fittings. Pneumatic hydraulic sealant. Part Numbers for this data: 65-010, 65-050, 65-250 Information provided by Palm Laboratories Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Palm-Labs-Adhesives-TURBO-SEAL-SERIES-55-BROWN-FINE-THREADS-THREAD-SEALANT.php

| Physical Properties | Metric | English | Comments |
|----------------------|-----------|-----------|------------------------|
| Specific Gravity | 1.20 g/cc | 1.20 g/cc | |
| Brookfield Viscosity | 14000 cP | 14000 cP | RVT Spindle 3 @ 20 rpm |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-------------|------------|---------------------------------|
| Shear Strength | >= 1.50 MPa | >= 218 psi | Steel Pins & Collars; ISO 10123 |

| Thermal Properties | Metric | English | Comments |
|------------------------|--|--|-----------|
| CTE, linear | 0.800 $\mu\text{m}/\text{m}^{\circ}\text{C}$ | 0.444 $\mu\text{in}/\text{in}^{\circ}\text{F}$ | ASTM D696 |
| Specific Heat Capacity | 0.300 J/g- $^{\circ}\text{C}$ | 0.0717 BTU/lb- $^{\circ}\text{F}$ | |
| Thermal Conductivity | 0.100 W/m-K | 0.694 BTU-in/hr-ft 2 - $^{\circ}\text{F}$ | ASTM C177 |
| Flash Point | >= 37.8 $^{\circ}\text{C}$ | >= 100 $^{\circ}\text{F}$ | |

| Processing Properties | Metric | English | Comments |
|-----------------------|---|---|------------|
| Cure Time | 120 - 240 min | 2.00 - 4.00 hour | Functional |
| | 1440 min | 24.0 hour | Full |
| | 10.0 - 30.0 min | 0.167 - 0.500 hour | Handling |
| | @Temperature -65.0 - 300 $^{\circ}\text{C}$ | @Temperature -85.0 - 572 $^{\circ}\text{F}$ | |

| Descriptive Properties | Value | Comments |
|------------------------|--------|--|
| Appearance | Purple | |
| Chemical Resistance | | Ethanol at 22 $^{\circ}\text{C}$, at 500hrs |

| Descriptive Properties | 100% Initial Strength Retained Value | Comments |
|------------------------|--------------------------------------|--|
| | 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 | Water/Glycol at 87°C, at 500hrs |
| | 100% Initial Strength Retained | Motor Oil at 125°C, at 1000hrs |
| | 100% Initial Strength Retained | Water/Glycol at 87°C, at 1000hrs |
| | 95% Initial Strength Retained | Acetone at 22°C, at 500hrs |
| | 95% Initial Strength Retained | Gasoline at 22°C, at 1000hrs |
| | 95% Initial Strength Retained | Brake Fluid at 22°C, at 1000hrs |
| | 95% Initial Strength Retained | Acetone at 22°C, at 1000hrs |
| | 95% Initial Strength Retained | Ethanol at 22°C, at 1000hrs |
| Composition | Methacrylate ester | |
| Operation Pressure | 10000 psi | |
| Torque | 2 N.m | Breakaway, M10 steel nuts and bolts, ISO 10964 |
| | 2 N.m | Prevail, M10 steel nuts and bolts, ISO 10964 |
| | 5 N.m | Breakloose, pre-torqued to 5 N.m, M10 steel nuts and bolts, ISO 10964 |
| | 5 N.m | Max Prevail, pre-torqued to 5 N.m, M10 steel nuts and bolts N.m, ISO 10964 |

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