

Palm Labs Adhesives TURBO-LOCK SERIES 15 Anaerobic Thread Locking Compound

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

Material Notes:

TURBO-LOCK 15 SERIES is a fast curing, large bolt, RED, high strength, anaerobic thread-locking compound for bonding and sealing threads. Prevents rusting of threads. It is highly resistance to heat, vibrations, water, gases, oils, hydrocarbons and many chemicals. Disassembles with heat and hand tools. Applications: Ideal for locking and sealing of larger bolts and studs (25 mm and larger). Transmission and engine block studs, valve sets, etc. High strength, large bolt, permanent and eliminates need for double nutting and welding. Prevents corrosion and leakage. Excellent performance of even oily surfaces. Fasteners on vibrating machines or moving components. Meets Military Specification: MIL-S-43163 Part Numbers for this data: 14-000, 14-001, 14-010, 14-050, 14-250, 14-1000 Information provided by Palm Laboratories Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Palm-Labs-Adhesives-TURBO-LOCK-SERIES-15-Anaerobic-Thread-Locking-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	
Brookfield Viscosity	7000 cP	7000 cP	RVT Spindle 3 @ 20 rpm

Mechanical Properties	Metric	English	Comments
Shear Strength	>= 9.00 MPa	>= 1310 psi	ISO 10123; Compressive, Steel pins and collars

Thermal Properties	Metric	English	Comments
CTE, linear	0.800 $\mu\text{m}/\text{m}\cdot\text{°C}$	0.444 $\mu\text{in}/\text{in}\cdot\text{°F}$	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	>= 37.8 °C	>= 100 °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 @Temperature -55.0 - 150 °C	0.500 hour @Temperature -67.0 - 302 °F	Handling
Shelf Life	24.0 Month	24.0 Month	

Descriptive Properties	Value	Comments
Appearance	Red	
Chemical Resistance	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	Motor Oil at 125°C, at 1000hrs
	100% Initial Strength Retained	Gasoline at 22°C, at 1000hrs
	90% Initial Strength Retained	Brake Fluid at 22°C, at 1000hrs
	90% Initial Strength Retained	Water/Glycol at 87°C, at 1000hrs
	90% Initial Strength Retained	Brake Fluid at 22°C, at 500hrs
	90% Initial Strength Retained	Water/Glycol at 87°C, at 500hrs
	95% Initial Strength Retained	Acetone at 22°C, at 1000hrs
	95% Initial Strength Retained	Ethanol at 22°C, at 1000hrs
	95% Initial Strength Retained	Acetone at 22°C, at 500hrs
	95% Initial Strength Retained	Ethanol at 22°C, at 500hrs
Composition	Methacrylate Ester	
Max Screw Size	1 ½" / 36 mm	
Torque	32 N.m	Breakaway, M10 steel nuts and bolts N.m, ISO 10964
	32 N.m	Prevail, M10 steel nuts and bolts N.m, ISO 10964
	38 N.m	Breakloose, pre-torqued to 5 N.m, M10 steel nuts and bolts, ISO 10964
	40 N.m	Max Prevail, pre-torqued to 5 N.m, M10 steel nuts and bolts N.m, ISO 10964

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