

## Palm Labs Adhesives TURBO-LOCK SERIES 16 Anaerobic Thread Locking Compound

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

### Material Notes:

TURBO-LOCK SERIES 16 is a fast curing, GREEN, medium strength, wicking grade, anaerobic thread-locking compound for bonding and sealing threads, and pre-assembled parts. It is highly resistance to heat, vibrations, water, gases, oils, hydrocarbons and many chemicals. Disassembles with heat and hand tools. Applications: IPenetrates threads by capillary action. Medium strength thread-locker. Ideal for sealing hairline cracks, small nuts and bolts. Seals and welds porous metal parts. Localize heating and hand tools are needed for disassembly. Prevents corrosion and leakage. Secure setscrews and other assemblies after settings are completed. Fasteners on vibrating machines or moving components. Meets Military specifications: MIL-S-46163 and MIL-S-22473 Part Numbers for this data: 16-001, 16-010, 16-050, 16-250, 16-1000 Information provided by Palm Laboratories Adhesives

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Palm-Labs-Adhesives-TURBO-LOCK-SERIES-16-Anaerobic-Thread-Locking-Compound.php](http://www.lookpolymers.com/polymer_Palm-Labs-Adhesives-TURBO-LOCK-SERIES-16-Anaerobic-Thread-Locking-Compound.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	
Brookfield Viscosity	12 cP	12 cP	RVT Spindle 3 @ 20 rpm

Mechanical Properties	Metric	English	Comments
Shear Strength	>= 5.40 MPa	>= 783 psi	ISO 10123; Compressive, Steel pins and collars

Thermal Properties	Metric	English	Comments
CTE, linear	0.800 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	0.444 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	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 <sup>2</sup> - $^\circ\text{F}$	ASTM C177

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 180 min	1.00 - 3.00 hour	Functional
	1440 min	24.0 hour	Full
	19.8 min @Temperature -55.0 - 150 $^\circ\text{C}$	0.330 hour @Temperature -67.0 - 302 $^\circ\text{F}$	Handling
Shelf Life	24.0 Month	24.0 Month	

Descriptive Properties	Value	Comments
Appearance	Green	
Chemical Resistance	50% Initial Strength Retained	Motor Oil at 125°C, at 1000hrs
	85% Initial Strength Retained	Brake Fluid at 22°C, at 1000hrs
	85% Initial Strength Retained	Motor Oil at 125°C, at 500hrs
	90% Initial Strength Retained	Gasoline at 22°C, at 500hrs
	90% Initial Strength Retained	Brake Fluid at 22°C, at 500hrs
	90% Initial Strength Retained	Water/Glycol at 87°C, at 500hrs
	90% Initial Strength Retained	Water/Glycol at 87°C, at 1000hrs
	90% Initial Strength Retained	Gasoline 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
	95% Initial Strength Retained	Acetone at 22°C, at 1000hrs
	95% Initial Strength Retained	Ethanol at 22°C, at 1000hrs
Composition	Methacrylate Ester	
Torque	10 N.m	Breakaway, M10 steel nuts and bolts N.m, ISO 10964
	29 N.m	Prevail, M10 steel nuts and bolts N.m, ISO 10964
	30 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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