

## Palm Labs Adhesives TURBO-LOCK SERIES 12 Anaerobic Thread Locking Compound

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

### Material Notes:

TURBO-LOCK 12 SERIES is a fast curing, medium to high strength, RED, permanent, anaerobic thread-locking compound for bonding and sealing threads. It is highly resistance to heat, vibrations, water, gases, oils, hydrocarbons and many chemicals, and is good in a chemical environment. Disassembles with heat and hand tools. Applications: Ideal for thread locking heavy duty applications such as bolts used in transmission, construction equipment or railroad assemblies, etc. Ideal for fasteners between ¼" and ¾" (6 to 20 mm) diameters. Lubricated for easy assembly. Prevents loosening and leakage of threaded fasteners. Locks and seals threaded joints-nuts, screws, and studs. Meets 90% of all nut and bolt thread locking applications. Meets military specification: MIL-S-46163 Part Numbers for this data: 12-000, 12-001, 12-010, 12-050, 12-250, 12-1000 Information provided by Palm Laboratories Adhesives

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Palm-Labs-Adhesives-TURBO-LOCK-SERIES-12-Anaerobic-Thread-Locking-Compound.php](http://www.lookpolymers.com/polymer_Palm-Labs-Adhesives-TURBO-LOCK-SERIES-12-Anaerobic-Thread-Locking-Compound.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	
Brookfield Viscosity	2400 cP	2400 cP	RVT Spindle 3 @ 20 rpm

Mechanical Properties	Metric	English	Comments
Shear Strength	>= 10.0 MPa	>= 1450 psi	ISO 10123; Compressive, Steel pins and collars

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-ft²-°F	ASTM C177
Flash Point	>= 35.0 °C	>= 95.0 °F	

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	0.330 hour	Handling
	@Temperature -55.0 - 150 °C	@Temperature -67.0 - 302 °F	
Shelf Life	24.0 Month	24.0 Month	

Descriptive Properties	Value	Comments
Appearance	Red	
Chemical Resistance	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	Gasoline at 22°C, at 1000hrs
	100% Initial Strength Retained	Brake Fluid at 22°C, at 1000hrs
	85% Initial Strength Retained	Water/Glycol at 87°C, at 1000hrs
	85% 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	Motor Oil at 125°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	Motor Oil at 125°C, at 500hrs
Composition	Methacrylate Ester	
Max Screw Size	3/4" / 20 mm	
Torque	22 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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