

Palm Labs Adhesives TURBO-LOCK SERIES 10 Anaerobic Thread Locking Compound

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

Material Notes:

TURBO-LOCK SERIES 10 is a removable, PURPLE, fast curing, low strength, anaerobic thread-locking compound for bonding and sealing small screw threads. It is highly resistance to heat, vibrations, water, gases, oils, hydrocarbons and many chemicals. Easy disassembly. Applications: Ideal for thread locking small screws from loosening under vibration. Ideal for fastening of ¼" (6mm) and smaller diameters. Specifically suitable for applications such as adjustment of set screws and small diameter fasteners where easy disassembly is required. Meets Military specifications: MIL-S-46163 Part Numbers for this data: 10-001, 10-010, 10-050, 10-250, 10-1000 Information provided by Palm Laboratories Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Palm-Labs-Adhesives-TURBO-LOCK-SERIES-10-Anaerobic-Thread-Locking-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	
Brookfield Viscosity	1000 cP	1000 cP	RVT Spindle 3 @ 20 rpm

Mechanical Properties	Metric	English	Comments
Shear Strength	3.00 - 10.0 MPa	435 - 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	>= 37.8 °C	>= 100 °F	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 180 min	1.00 - 3.00 hour	Functional
	1440 min	24.0 hour	Full
	10.0 min	0.167 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	Purple	
Chemical Resistance	100% Initial Strength Retained	Acetone at 22°C, at 500hrs
	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	Acetone at 22°C, at 1000hrs
	85% Initial Strength Retained	Water/Glycol at 87°C, at 1000hrs
	90% Initial Strength Retained	Water/Glycol at 87°C, at 500hrs
Composition	Methacrylate Ester	
Max Screw Size	1/4" / 6mm	
Torque	4 N.m	Prevail, M10 steel nuts and bolts N.m, ISO 10964
	6 N.m	Breakaway, M10 steel nuts and bolts N.m, ISO 10964
	9-21 N.m	Breakloose, pre-torqued to 5 N.m, M10 steel nuts and bolts, ISO 10964
	9-21 N.m	Max Prevail, pre-torqued to 5 N.m, M10 steel nuts and bolts N.m, ISO 10964

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