

Palm Labs Adhesives TURBO-LOCK SERIES 13 Anaerobic Thread Locking Compound

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

Material Notes:

TURBO-LOCK 13 SERIES is a RED, high temperature, high strength, permanent, anaerobic thread-locking compound. It is highly resistance to heat, vibrations, water, gases, oils, hydrocarbons and many chemicals. Disassembles with high heat and hand tools. Applications: Ideal for applications where the temperatures range from -65 to 450°F. Ideal for thread locking heavy duty applications such as bolts up to 1 ½" (36 mm) used in transmission, construction equipment or railroad assemblies, etc. Lubricated for easy assembly. Prevents loosening and leakage of threaded fasteners. Locks and seals threaded joints-nuts, screws, and studs. To disassemble, apply high heat and use tools. Part Numbers for this data: 13-000, 13-001, 13-010, 13-050, 13-250, 13-1000 Information provided by Palm Laboratories Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Palm-Labs-Adhesives-TURBO-LOCK-SERIES-13-Anaerobic-Thread-Locking-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	
Brookfield Viscosity	9500 cP	9500 cP	RVT Spindle 3 @ 20 rpm

Mechanical Properties	Metric	English	Comments
Shear Strength	>= 14.5 MPa	>= 2100 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	>= 33.9 °C	>= 93.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 180 min	1.00 - 3.00 hour	Functional
	1440 min	24.0 hour	Full
	30.0 min	0.500 hour	Handling
	@Temperature -55.0 - 204 °C	@Temperature -67.0 - 399 °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	Ethanol at 22°C, at 500hrs
	100% Initial Strength Retained	Ethanol at 22°C, at 1000hrs
	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
	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	Acetone at 22°C, at 500hrs
	95% Initial Strength Retained	Motor Oil at 125°C, at 1000hrs
	95% Initial Strength Retained	Motor Oil at 125°C, at 500hrs
Composition	Methacrylate Ester	
Max Screw Size	1 1/2" / 36 mm	
Torque	23 N.m	Breakaway, M10 steel nuts and bolts N.m, ISO 10964
	25 N.m	Prevail, M10 steel nuts and bolts N.m, ISO 10964

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