

Palm Labs Adhesives TURBO-LOCK SERIES 17-GP Anaerobic Thread Locking Compound

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

Material Notes:

BEARING AND SHAFT - SERIES 17-GP is a fast curing, GREEN, high strength, general purpose, press fit, anaerobic retaining compound for bonding, sealing and retaining of cylindrical parts. It is highly resistance to heat, vibrations, water, gases, oils, hydrocarbons and many chemicals. Applications: Ideal to fill gaps up to 0.005" Excellent for press fitting parts. Withstands working temperatures up to 300°F Retaining sleeves, pulleys, gears, rotors and fans on shafts. Mounting sleeves, securing bushings, bearings and plugs in housing. Excellent retaining and sealing compound Part Numbers for this data: 17-001-GP, 17-010-GP, 17-050-GP, 17-250-GP, 17-1000-GP Information provided by Palm Laboratories Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Palm-Labs-Adhesives-TURBO-LOCK-SERIES-17-GP-Anaerobic-Thread-Locking-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	
Brookfield Viscosity	125 cP	125 cP	RVT Spindle 3 @ 20 rpm

Mechanical Properties	Metric	English	Comments
Shear Strength	13.0 - 15.0 MPa	1890 - 2180 psi	ISO 10123; Compressive, Steel pins and collars
	@Temperature 22.0 °C, Time 108000 sec	@Temperature 71.6 °F, Time 30.0 hour	
	17.0 - 19.0 MPa	2470 - 2760 psi	ISO 10123; Compressive, Steel pins and collars
	@Temperature 22.0 °C, Time 86400 sec	@Temperature 71.6 °F, Time 24.0 hour	

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	

Processing Properties	Metric @ Temperature -55.0 - 150 °C	English @ Temperature -67.0 - 302 °F	Handling Comments
Shelf Life	24.0 Month	24.0 Month	

Descriptive Properties	Value	Comments
Appearance	Green	
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	Water/Glycol at 87°C, at 1000hrs
	90% Initial Strength Retained	Water/Glycol at 87°C, at 500hrs
	90% Initial Strength Retained	Acetone at 22°C, at 1000hrs
Composition	Methacrylate Ester	
Gap Fill	0.005"	

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