

Palm Labs Adhesives TURBO SEAL SERIES 75 WHITE GENERAL PURPOSE THREAD SEALANT

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

Material Notes:

TURBO SEAL SERIES 80 is a high performance control strength anaerobic thread sealant designed for the locking and sealing of metal threaded pipes and fittings. NSF Certified Certified to ANSI/NSF Standard 61 for use in commercial and residential potable water systems not exceeding 82° C. UL Classification Classified as small fire hazard. No flash point in liquid state. Ignition temperature 465°C. For use in devices handling gasoline, petroleum oils, natural gas, propane and butane. Pressure Resistance TURBO SEAL SERIES 80 was successfully tested for pressure resistance and sealability to 3,000 psi 3/8" NPT steel pipe tees and plugs were assembled and pre-torqued to 27 N.m and allowed to cure 24 hours prior to testing at 3,000 psi hydraulic pressure according to ASTM D 1599. Part Numbers for this data: 80-051, 80-251, 80-300, 80-1000, 80-2000 Information provided by Palm Laboratories Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Palm-Labs-Adhesives-TURBO-SEAL-SERIES-75-WHITE-GENERAL-PURPOSE-THREAD-SEALANT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	
Brookfield Viscosity	300000 cP	300000 cP	RVT Spindle 3 @ 20 rpm

Mechanical Properties	Metric	English	Comments
Shear Strength	>= 1.00 MPa	>= 145 psi	Steel Pins & Collars; ISO 10123

Thermal Properties	Metric	English	Comments
CTE, linear	0.800 $\mu\text{m/m-}^{\circ}\text{C}$	0.444 $\mu\text{in/in-}^{\circ}\text{F}$	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 ² - $^{\circ}\text{F}$	ASTM C177
Flash Point	>= 37.8 $^{\circ}\text{C}$	>= 100 $^{\circ}\text{F}$	

Processing Properties	Metric	English	Comments
Cure Time	120 - 240 min	2.00 - 4.00 hour	Functional
	1440 min	24.0 hour	Full
	10.0 - 30.0 min	0.167 - 0.500 hour	Handling
	@Temperature -65.0 - 300 $^{\circ}\text{C}$	@Temperature -85.0 - 572 $^{\circ}\text{F}$	

Descriptive Properties	Value	Comments
Appearance	White	
Chemical Resistance	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	Water/Glycol at 87°C, at 500hrs
	85% Initial Strength Retained	Acetone at 22°C, at 1000hrs
	90% Initial Strength Retained	Ethanol at 22°C, at 1000hrs
	90% Initial Strength Retained	Acetone at 22°C, at 500hrs
	90% Initial Strength Retained	Ethanol at 22°C, at 500hrs
	90% Initial Strength Retained	Water/Glycol at 87°C, at 1000hrs
	95% Initial Strength Retained	Motor Oil at 125°C, at 1000hrs
	95% Initial Strength Retained	Gasoline at 22°C, at 1000hrs
	95% Initial Strength Retained	Brake Fluid at 22°C, at 1000hrs
Composition	Methacrylate ester	
Torque	>2.8 N.m	Breakaway, M10 steel nuts and bolts, ISO 10964
	1 N.m	Prevail, M10 steel nuts and bolts, ISO 10964

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