Permabond LH050 Anaerobic Threadsealant

Category : Polymer , Adhesive , Thermoset , Acrylic/Cyanoacrylate Adhesive

Material Notes:

Permabond® LH050 pipe sealant with PTFE is a general purpose pipe sealant that provides instant air pressure seal up to 1000 psi with limited hand tightening. After cure, the sealing capability is typically up to the burst rating of the pipe itself. The low locking strength allows easy disassembly. Permabond® LH050 pipe sealant performs well on most metals, particularly steel and brass. It provides an excellent alternative to pipe dopes and pipe tapes for sealing pipe joints. It cures anaerobically when in contact with metal parts (as in a threaded pipe joint). When applied, LH050 dispenses as a smooth paste, filling the entire space between the threaded parts. It then cures at ambient temperature to form a solid plastic, completely sealing against hydraulic fluids, air, gases and chemicals. In addition, it locks the pipes, plugs or fittings against vibration loosening, tampering and variable temperature effects. Features & Benefits: Full cure seal to the burst rating of pipeEasy to use and apply Directional freedom Does not contain solvents Excellent chemical and temperature resistance Cures at room temperature Will not shred, tear or cause blockages Information provided by Permabond.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Permabond-LH050-Anaerobic-Threadsealant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	250000 cP @Temperature 25.0 °C	250000 cP @Temperature 77.0 °F	Uncured
Storage Temperature	5.00 - 25.0 °C	41.0 - 77.0 °F	

Mechanical Properties	Metric	English	Comments
Adhesive Bond Strength	7.00 MPa	1020 psi	steel collar and pin shear; ISO 10123

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	177 °C	350 °F	
Minimum Service Temperature, Air	-53.9 °C	-65.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min @Temperature 23.0 °C	0.500 hour @Temperature 73.4 °F	Brass, handling strength
	120 min	2.00 hour	M10 steel, handling strength

Processing Properties	Metric @Temperature 23.0 °C	English @Temperature 73.4 °F	Comments
	180 min @Temperature 23.0 °C	3.00 hour @Temperature 73.4 °F	Zinc, handling strength
	180 - 360 min @Temperature 23.0 °C	3.00 - 6.00 hour @Temperature 73.4 °F	Brass, working strength
	360 min @Temperature 23.0 °C	6.00 hour @Temperature 73.4 °F	Stainless steel, handling strength
	360 min @Temperature 23.0 °C	6.00 hour @Temperature 73.4 °F	M10 steel, working strength
	1440 min @Temperature 23.0 °C	24.0 hour @Temperature 73.4 °F	Zinc, working strength
	4320 min @Temperature 23.0 °C	72.0 hour @Temperature 73.4 °F	M10 steel, full strength
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Appearance	White	Uncured
Maximum Gap Fill (mm)	0.5	
Strength Retention	20% at 200°C	Relative to 0°C
	60% at 150°C	Relative to 0°C
	85% at 100°C	Relative to 0°C
	93% at 50°C	Relative to 0°C
Torque Strength (N m)	3	M10 steel, prevail
	4	M10 steel, break
UV Fluorescence	No	Uncured

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