

Permabond MH052 Anaerobic Threadsealant

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

Material Notes:

Permabond® MH052 is ideal for the sealing of threaded joints. It is approved for use with natural gas and LPG for working pressure up to 20 bar (290 psi) and also for gaseous oxygen up to 10 bar (145 psi) and 60°C (140°F). MH052 seals against gas, water, LPG, hydrocarbons, oils and other chemicals and will seal to the burst rating of the pipe. Unlike PTFE tape or hemp, Permabond MH052 will not shred or dry out, so it will provide a durable seal, helping to extend the life of the components. Features & Benefits: Excellent chemical resistance Pressure seal to burst rating of pipe No loose particles to clog valves Approved for use with gaseous oxygen WRAS listed for contact with wholesome (potable) water DVGW & BAM approval Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-MH052-Anaerobic-Threadsealant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	25000 cP	25000 cP	at 20 rpm vibration
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	65000 cP	65000 cP	at 2 rpm vibration
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Storage Temperature	5.00 - 25.0 °C	41.0 - 77.0 °F	

Mechanical Properties	Metric	English	Comments
Adhesive Bond Strength	10.0 MPa	1450 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	149 °C	300 °F	
Minimum Service Temperature, Air	-53.9 °C	-65.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	11.0 kV/mm	279 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	4.98 min	0.0830 hour	Brass, handling strength

Processing Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	15.0 min	0.250 hour	Zinc, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	15.0 min	0.250 hour	M10 steel, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	30.0 min	0.500 hour	Stainless steel, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	30.0 min	0.500 hour	Brass, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	60.0 - 180 min	1.00 - 3.00 hour	M10 steel, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	180 - 360 min	3.00 - 6.00 hour	Zinc, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1440 min	24.0 hour	Stainless steel, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1440 min	24.0 hour	M10 steel, full strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Descriptive Properties	Value	Comments
Appearance	Yellow	Uncured
Maximum Gap Fill (mm)	0.5	
Maximum Thread Size	M56	
Strength Retention	50% at 150°C	Relative to 0°C
	80% at 100°C	Relative to 0°C
	93% at 50°C	Relative to 0°C
Torque Strength (N m)	11	M10 steel, prevail
	20	M10 steel, break
UV Fluorescence	Yes	Uncured

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