

## Permabond LH054 Anaerobic Threadsealant

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

**Material Notes:**

Permabond® LH054 is an anaerobic curing, calibrated strength pipe sealant that allows for easier disassembly – especially of larger diameter pipes. It cures anaerobically when in contact with metal parts (as in a threaded pipe joint). The product is instant sealing with full cure occurring in 12-16 hours. The permanent seal is inert to hydrocarbons (gasoline, diesel fuel), most acids, solvents and steam.

Permabond® LH054 seals iron, copper or brass pipe and is designed to obtain more complete cure on less active surfaces such as stainless steel and aluminum. The product is available in a brush-top dispenser. It is applied onto the first few threads, assembled and tightened with a wrench. Instant sealability of 500 psi is obtained, but final adjustment can be made up to several hours after assembly. Features &

Benefits: Easy 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-LH054-Anaerobic-Threadsealant.php](http://www.lookpolymers.com/polymer_Permabond-LH054-Anaerobic-Threadsealant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	260000 cP @Temperature 25.0 °C	260000 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	360 - 960 min @Temperature 23.0 °C	6.00 - 16.0 hour @Temperature 73.4 °F	M10 steel, handling 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)	2	M10 steel, prevail
	3	M10 steel, break
UV Fluorescence	No	Uncured

## Contact Songhan Plastic Technology Co.,Ltd.

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