

## Permabond A131 Anaerobic Threadsealant

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

### Material Notes:

Permabond® A131 is an anaerobic adhesive designed to seal threaded metal pipe connections carrying a wide variety of gases and liquids, including potable water. Suitable for use on both parallel and tapered threads, the delayed cure allows accurate alignment of components. Capable of giving an instant pressure seal and not drying out like many mastics, re-work can effectively be eliminated. Should disassembly be necessary, this can be accomplished using normal tools. Features & Benefits Allows alignment of parts during cure No loose particles to clog valves Instant low pressure seal Excellent chemical resistance KIWA approved WRAS listed for contact with wholesome (potable) water Information provided by Permabond.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Permabond-A131-Anaerobic-Threadsealant.php](http://www.lookpolymers.com/polymer_Permabond-A131-Anaerobic-Threadsealant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	6000 cP	6000 cP	at 20 rpm vibration
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	40000 cP	40000 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	6.00 MPa	870 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	

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

Processing Properties	Metric	English	Comments
Cure Time	7.02 min	0.117 hour	Brass, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	45.0 min	0.750 hour	M10 steel, handling strength

Processing Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	60.0 min	1.00 hour	Brass, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	60.0 min	1.00 hour	Zinc, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	120 min	2.00 hour	M10 steel, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	360 min	6.00 hour	Zinc, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	360 min	6.00 hour	Stainless steel, handling 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	White	Uncured
Maximum Gap Fill (mm)	0.5	
Maximum Thread Size	M56	
Strength Retention	20% at 150°C	Relative to 0°C
	70% at 100°C	Relative to 0°C
	90% at 50°C	Relative to 0°C
Torque Strength (N m)	10	M10 steel, break
	7	M10 steel, prevail
UV Fluorescence	Yes	Uncured

## Contact Songhan Plastic Technology Co.,Ltd.

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