

## Permabond LM012 Anaerobic Threadsealant

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

### Material Notes:

Permabond® LM012 is an unfilled, medium viscosity anaerobic adhesive. Its major benefit as related to other pipe sealants is that it is an unfilled resin that is compatible with hydraulic fluids. If the adhesive is accidentally spilled into the hydraulic system, e.g., squeezed out of the joint, it will be dispersed in the fluid. It contains no particles that can clog or foul hydraulic screens and valves. Thus it is used in very sensitive high pressure hydraulic systems. Features & Benefits: Full cure seal to the burst rating of pipe Easy to use and apply Directional freedom Does not contain solvents Excellent chemical and temperature resistance Cures at room temperature Ideal for sealing hydraulic systems Information provided by Permabond.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Permabond-LM012-Anaerobic-Threadsealant.php](http://www.lookpolymers.com/polymer_Permabond-LM012-Anaerobic-Threadsealant.php)

| Physical Properties | Metric                          | English                         | Comments |
|---------------------|---------------------------------|---------------------------------|----------|
| Specific Gravity    | 1.10 g/cc                       | 1.10 g/cc                       | Uncured  |
| Viscosity           | 2000 cP<br>@Temperature 25.0 °C | 2000 cP<br>@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 | 5.00 MPa | 725 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<br>@Temperature 23.0 °C | 0.500 hour<br>@Temperature 73.4 °F | M10 steel, handling strength |
|                       | 30.0 min<br>@Temperature 23.0 °C | 0.500 hour<br>@Temperature 73.4 °F | Zinc, handling strength      |
|                       | 60.0 min<br>@Temperature 23.0 °C | 1.00 hour<br>@Temperature 73.4 °F  | Aluminum, handling strength  |

| Processing Properties | Metric               | English              | Comments                    |
|-----------------------|----------------------|----------------------|-----------------------------|
|                       | @Temperature 23.0 °C | @Temperature 73.4 °F | M10 steel, working strength |
|                       | 360 - 1440 min       | 6.00 - 24.0 hour     | Zinc, 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 |                             |
| Shelf Life            | 12.0 Month           | 12.0 Month           |                             |

| Descriptive Properties | Value        | Comments           |
|------------------------|--------------|--------------------|
| Appearance             | Brown        | Uncured            |
| Maximum Gap Fill (mm)  | 0.2          |                    |
| Maximum Thread Size    | M20          |                    |
| 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        | Yes          | Uncured            |

## Contact Songhan Plastic Technology Co.,Ltd.

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