

Permabond A136 Anaerobic Gasketmaker

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

Material Notes:

Permabond® A136 is an anaerobic material designed for making 'formed in situ' gaskets between metal surfaces. It is capable of replacing a wide range of conventional gaskets thereby offering potential for reduced stock holdings. By allowing surface to surface contact, load transmission can be improved. As the product does not shrink, creep or relax after curing, no bolt re-tightening is required. Its excellent chemical resistance allows its use with a wide variety of gases and liquids. Features & Benefits: Does not creep or shrink Improved stress distribution No shimming effect No loose particles to clog oilways etc. 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-A136-Anaerobic-Gasketmaker.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	18000 cP	18000 cP	at 20 rpm vibration
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	75000 cP	75000 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	12.0 MPa	1740 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	4.98 min	0.0830 hour	Brass, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	30.0 min	0.500 hour	Brass, working strength

Processing Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	<= 30.0 min	<= 0.500 hour	M10 steel, handling 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	Stainless steel, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	420 min	7.00 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	

Descriptive Properties	Value	Comments
Appearance	Red	Uncured
Maximum Gap Fill (mm)	0.5	
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
	8	M10 steel, prevail
UV Fluorescence	Yes	Uncured

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