

Permabond MH196 Anaerobic Gasketmaker

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

Material Notes:

Permabond® MH196 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. It has excellent chemical and high temperature resistance up to 200°C. Features & Benefits: Instant low pressure seal Replaces all sizes of formed gaskets Good high pressure resistance High temperature resistance Does not creep or shrink Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-MH196-Anaerobic-Gasketmaker.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	100000 cP	100000 cP	at 20 rpm vibration
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	500000 cP	500000 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	199 °C	390 °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	15.0 min	0.250 hour	M10 steel, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	Metric ¹⁾	English ²⁾	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	Zinc, handling strength
	60.0 min	1.00 hour	Aluminum, handling 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 min	3.00 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 250°C	Relative to 0°C
	70% at 200°C	Relative to 0°C
	85% at 150°C	Relative to 0°C
	93% at 100°C	Relative to 0°C
	98% at 50°C	Relative to 0°C
Torque Strength (N m)	20	M10 steel, break
	23	M10 steel, prevail
UV Fluorescence	Yes	Uncured

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