

Permabond HH190 Anaerobic Gasketmaker

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

Material Notes:

Permabond® HH190 Gasketmaker is an anaerobic curing flange sealant that can replace, or be used as a dressing for, conventional pre-cut gaskets. Since HH190 is a flowable paste, it conforms to the shape of the flange. The consistency allows metal to metal contact of the flanges while filling the areas where no contact exists because of irregularities. HH190 results in uniform stress distribution and eliminates the need for re-torquing because of stress relaxation of the flange bolts. It provides instant seal depending on the gap and flange width and ultimately seals up to 5000 psi

Features & Benefits: Eliminates pre-cut gaskets from flange assemblies Instant pressure seal Forms a tough, durable seal able to withstand high pressure No need to re-tighten flange bolts Non-flammable No shimming effects – better load transmission Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-HH190-Anaerobic-Gasketmaker.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	300000 cP @Temperature 25.0 °C	300000 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	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-ft ² -°F	
Maximum Service Temperature, Air	121 °C	250 °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 @Temperature 23.0 °C	0.250 hour @Temperature 73.4 °F	M10 steel, handling strength

Processing Properties	30.0 min Metric	0.500 hour English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	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 - 360 min	3.00 - 6.00 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	
	4320 min	72.0 hour	Aluminum, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Descriptive Properties	Value	Comments
Appearance	Purple	Uncured
Maximum Gap Fill (mm)	0.3	
Strength Retention	50% at 150°C	Relative to 0°C
	80% at 100°C	Relative to 0°C
	93% at 50°C	Relative to 0°C
Torque Strength (N m)	10	M10 steel, break
	6	M10 steel, prevail
UV Fluorescence	No	Uncured

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