

Permabond LH197 Anaerobic Gasketmaker

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

Material Notes:

Permabond® LH197 is an anaerobic material designed for making "formed in situ" gaskets between metal surfaces. It is highly flexible, making it ideal for dissimilar surfaces where differential thermal expansion and contraction could be an issue. Due to its flexibility it is easy to remove and ideal for gasketing applications where routine disassembly is required or on soft metal surfaces such as certain aluminum alloys which damage easily. Features & Benefits: Flexible Replaces all sizes of formed gaskets Ideal for bonding dissimilar metals Suitable for use with non-ferrous metals Can be dismantled with normal tools Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-LH197-Anaerobic-Gasketmaker.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	20500 cP	20500 cP	at 20 rpm vibration
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	50000 cP	50000 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	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	149 °C	300 °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	19.8 min	0.330 hour	M10 steel, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	Zinc, handling strength
	60.0 min	1.00 hour	Stainless steel, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	180 - 360 min	3.00 - 6.00 hour	M10 steel, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	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	

Descriptive Properties	Value	Comments
Appearance	Green	Uncured
Maximum Gap Fill (mm)	0.3	
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
	5	M10 steel, prevail
UV Fluorescence	Yes	Uncured

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