

Permabond HH167 Anaerobic Retainer

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

Material Notes:

Permabond® HH167 is a high viscosity gap filling silver paste, which can be used for repairing metal machinery parts. It is ideal for repairing worn shafts, broken threads, damaged keyways and splines. Permabond HH167 has excellent chemical and temperature resistance. NB. This adhesive is only suitable for gaps

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-HH167-Anaerobic-Retainer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	90000 cP	90000 cP	at 20 rpm vibration
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	500000 cP	500000 cP	at 2rpm 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	32.0 MPa	4640 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	15.0 min	0.250 hour	M10 steel, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	30.0 min	0.500 hour	Zinc, handling strength

Processing Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	60.0 min	1.00 hour	Aluminum, 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 min	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	

Descriptive Properties	Value	Comments
Appearance	Silver	Uncured
Maximum Gap Fill (mm)	0.5	
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)	32	M10 steel, prevail
	45	M10 steel, break
UV Fluorescence	No	Uncured

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