

Permabond A1046 Anaerobic Retainer

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

Material Notes:

Permabond® A1046 is a rapid curing adhesive designed to provide permanent locking and sealing of metal parts such as bearings, gears, pulleys and threaded components. It exhibits high strength and excellent durability, even under the most arduous conditions. Permabond A1046 helps joints resist vibration, fatigue and fretting corrosion, which allows machining tolerances to be relaxed and mechanical locking devices to be eliminated. Permabond A1046 will help reduce processing costs. Features & Benefits: Toughened Rapid cure Ideal when bonding dissimilar materials Improved fatigue life Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-A1046-Anaerobic-Retainer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	2500 cP	2500 cP	at 20 rpm vibration
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	9000 cP	9000 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	35.0 MPa	5080 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	
	7.02 min	0.117 hour	Zinc, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	4.98 - 10.2 min Metric	0.0830 - 0.170 hour English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	M10 steel, handling strength
	15.0 min	0.250 hour	Brass, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	30.0 min	0.500 hour	Stainless steel, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	30.0 min	0.500 hour	M10 steel, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	60.0 min	1.00 hour	Zinc, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1440 min	24.0 hour	Stainless steel, 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)	0.25	
Maximum Thread Size	M30	
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)	30	M10 steel, break
	50	M10 steel, prevail
UV Fluorescence	Yes	Uncured

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