

Permabond A118 Anaerobic Retainer

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

Material Notes:

Permabond® A118 is an anaerobic adhesive designed to provide permanent locking and sealing of metal parts such as bearings, gears, studs and other threaded components. It exhibits high strength, excellent durability and resistance to vibration, fatigue and fretting corrosion. These features allow machining tolerances to be relaxed, and mechanical locking devices to be eliminated, with consequent cost savings. Features & Benefits Excellent chemical resistance Improved fatigue life Lower cost than interference fit Low shrinkage during cure WRAS listed for contact with wholesome (potable) water Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-A118-Anaerobic-Retainer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	400 cP	400 cP	Uncured
	@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	21.0 MPa	3050 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	

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	
	15.0 min	0.250 hour	M10 steel, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	30.0 min	0.500 hour	Brass, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	60.0 min Metric	1.00 hour English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	200. handling strength
	60.0 min	1.00 hour	M10 steel, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	360 min	6.00 hour	Stainless steel, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1440 min	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)	0.12	
Maximum Thread Size	M20	
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)	33	M10 steel, break
	58	M10 steel, prevail
UV Fluorescence	Yes	Uncured

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