

Permabond A134 Anaerobic Retainer

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

Material Notes:

Permabond® A134 is a high-strength anaerobic product designed for the permanent locking and sealing of metal parts. Its 'non-drip' formulation makes it suitable for use on larger fittings, coarse threads or for the renovation of assemblies where wide tolerances are expected due to damage or wear. A134 can extend the life of components by reducing the effects of corrosion in aggressive environments. Features & Benefits Easy to apply Thixotropic Room temperature cure Very high strength Excellent chemical resistance 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-A134-Anaerobic-Retainer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	8000 cP	8000 cP	at 20 rpm vibration
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	70000 cP	70000 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	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	Zinc, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	15.0 min Metric	0.250 hour English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	M10 steel, handling strength
	30.0 min	0.500 hour	Brass, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	60.0 min	1.00 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	
	360 min	6.00 hour	Stainless steel, handling 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)	0.5	
Maximum Thread Size	M80	
Strength Retention	50% at 150°C	Relative to 0°C
	80% at 100°C	Relative to 0°C
	95% at 50°C	Relative to 0°C
Torque Strength (N m)	25	M10 Zn plated, break
	30	M10 steel, break
	45	M10 Zn plated, prevail
	50	M10 steel, prevail
UV Fluorescence	Yes	Uncured

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