

Permabond F201 Anaerobic Retainer

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

Material Notes:

Permabond® F201 is an anaerobic adhesive which has been developed to give excellent resistance to peel and impact forces. This toughening, combined with good adhesion to aluminum and copper alloys, makes it the first choice where relatively thin or lightweight components are being bonded which may be subject to "distortion" in service. It is also capable of resisting the thermal stresses that may be generated when bonding dissimilar surfaces. Permabond F201 is also suitable for contact with potable water. Features & Benefits:

Toughened Very high strength Ideal when bonding dissimilar materials Improved fatigue life WRAS listed for contact with potable water Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-F201-Anaerobic-Retainer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 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	30.0 MPa	4350 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

Processing Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	30.0 min	0.500 hour	Brass, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	60.0 min	1.00 hour	Zinc, handling 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	Stainless steel, handling 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	Brown	Uncured
Maximum Gap Fill (mm)	0.5	
Maximum Thread Size	M20	
Strength Retention	15% at 150°C	Relative to 0°C
	35% at 100°C	Relative to 0°C
	85% at 50°C	Relative to 0°C
Torque Strength (N m)	28	M10 steel, break
	30	M10 steel, prevail
UV Fluorescence	No	Uncured

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