

Permabond LM113 Anaerobic Threadlocker

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

Material Notes:

Permabond® LM113 Threadlocker is a medium viscosity product for locking small threaded fasteners, such as screws and bolts or hydraulic fittings that might require disassembly. Due to its thixotropic viscosity, the liquid adhesive will not run away from the area of application. Permabond LM113 Threadlocker cures reliably and fast on steel, cadmium, zinc and other plated fasteners. Features & Benefits: Prevents vibration loosening Controlled off-torque Full cure at room temperature Low strength for easy disassembly Lubricates threads for easier assembly Provides corrosion protection Superior environmental resistance Environmentally friendly – 100% solids Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-LM113-Anaerobic-Threadlocker.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	1200 cP @Temperature 25.0 °C	1200 cP @Temperature 77.0 °F	Uncured
Storage Temperature	5.00 - 25.0 °C	41.0 - 77.0 °F	

Mechanical Properties	Metric	English	Comments
Adhesive Bond Strength	5.00 MPa	725 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	7.02 min @Temperature 23.0 °C	0.117 hour @Temperature 73.4 °F	Brass, handling strength
	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	
	30.0 min	0.500 hour	Zinc, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	360 min	6.00 hour	M10 steel, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4320 min	72.0 hour	M10 steel, full strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4320 min	72.0 hour	Zinc, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Appearance	Purple	Uncured
Maximum Gap Fill (mm)	0.15	
Maximum Thread Size	M20	
Strength Retention	20% at 150°C	Relative to 0°C
	70% at 100°C	Relative to 0°C
	93% at 50°C	Relative to 0°C
Torque Strength (N m)	5	M10 steel, prevail
	9	M10 steel, break

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