

Permabond A113 Anaerobic Threadlocker

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

Material Notes:

Designed for the locking and sealing of metal parts, Permabond® A113 is ideally suited for use on components that need to be dismantled for maintenance. Giving vibration resistance it can be used to replace a wide range of mechanical locking devices. Its excellent chemical resistance makes it suitable for sealing small hydraulic and pneumatic fittings and can reduce the effects of corrosion. Features & Benefits: Excellent chemical resistance Vibration resistant Lubricates threads for easier assembly Provides corrosion protection 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-A113-Anaerobic-Threadlocker.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	500 cP @Temperature 25.0 °C	500 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	12.0 MPa	1740 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	

Electrical Properties	Metric	English	Comments
Dielectric Strength	11.0 kV/mm	279 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	4.98 min @Temperature 23.0 °C	0.0830 hour @Temperature 73.4 °F	Brass, handling strength
	15.0 min @Temperature 23.0 °C	0.250 hour @Temperature 73.4 °F	M10 steel, handling strength
	30.0 min @Temperature 23.0 °C	0.500 hour @Temperature 73.4 °F	Brass, working strength
	60.0 min	1.00 hour	Zinc, handling strength

Processing Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	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	Blue	Uncured
Maximum Gap Fill (mm)	0.12	
Maximum Thread Size	M20	
Strength Retention	20% at 150°C	Relative to 0°C
	70% at 100°C	Relative to 0°C
	90% at 50°C	Relative to 0°C
Torque Strength (N m)	12	M10 steel, break
	7	M10 steel, prevail
UV Fluorescence	Yes	Uncured

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