

Permabond A1042 Anaerobic Threadlocker

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

Material Notes:

Permabond® A1042 is a rapid curing adhesive designed to lock and seal metal parts that subsequently may need to be dismantled for maintenance. The high vibration resistance makes Permabond A1042 particularly suited to replacing lock washers, split pins and other mechanical locking devices. The well proven chemical resistance of Permabond A1042 will reduce the effects of corrosion and make it suitable for sealing small hydraulic and pneumatic fittings. Features & Benefits: Rapid cure 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-A1042-Anaerobic-Threadlocker.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	1700 cP	1700 cP	at 20 rpm vibration
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Storage Temperature	8000 cP	8000 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	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	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft²-°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	M10 steel, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Cure Time	4.98 min	0.0830 hour	Brass, 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	
	30.0 min	0.500 hour	Zinc, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	30.0 min	0.500 hour	M10 steel, working strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	180 min	3.00 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	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)	16	M10 steel, break
	8	M10 steel, prevail
UV Fluorescence	Yes	Uncured

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China