

Permabond A011 Anaerobic Threadlocker

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

Material Notes:

Permabond® A011 is an anaerobic adhesive designed for locking and sealing threaded or coaxially fitting metal parts where subsequent dismantling is required. Its controlled strength ensures fatigue, vibration and corrosion resistance on large or fragile components whilst still allowing assemblies to be stripped down using normal tools. Features and Benefits: Vibration resistant Can be dismantled with normal tools 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-A011-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	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	

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	

Processing Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	Zinc handling strength Comments
	60.0 min @Temperature 23.0 °C	1.00 hour @Temperature 73.4 °F	M10 steel, working strength
	360 min @Temperature 23.0 °C	6.00 hour @Temperature 73.4 °F	Stainless steel, handling strength
	360 - 1440 min @Temperature 23.0 °C	6.00 - 24.0 hour @Temperature 73.4 °F	Zinc, working strength
	1440 min @Temperature 23.0 °C	24.0 hour @Temperature 73.4 °F	M10 steel, full strength

Descriptive Properties	Value	Comments
Appearance	Red	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)	4	M10 steel, break
	5	M10 steel, prevail
UV Fluorescence	Yes	Uncured

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