

Permabond A025 Anaerobic Retainer

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

Material Notes:

Permabond® A025 is an anaerobic adhesive formulated to provide permanent locking and sealing of metal parts such as bearings, gears, studs and other threaded components. It has been designed for applications where joints have to withstand temperatures up to 200°C or where the maximum degree of chemical resistance is required. These features allow machining tolerances to be relaxed and mechanical locking devices to be eliminated, with consequent cost savings. Features & Benefits: Excellent temperature resistance Excellent chemical resistance 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-A025-Anaerobic-Retainer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	750 cP	750 cP	Uncured
	@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	8.00 MPa	1160 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	15.0 - 30.0 min	0.250 - 0.500 hour	M10 steel, handling strength
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	120 min	2.00 hour	M10 steel, 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	Orange	Uncured
Maximum Gap Fill (mm)	0.2	
Maximum Thread Size	M20	
Strength Retention	20% at 250°C	Relative to 0°C
	70% at 200°C	Relative to 0°C
	88% at 150°C	Relative to 0°C
	92% at 100°C	Relative to 0°C
	96% at 50°C	Relative to 0°C
Torque Strength (N m)	13	M10 steel, break
	23	M10 steel, prevail
UV Fluorescence	Yes	Uncured

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