

Permabond ET500 Epoxy Resin

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

PERMABOND ET500 is a two-part fast-setting epoxy adhesive which bonds to a wide variety of substrates such as wood, metal, ceramics and some plastics and composites. It cures rapidly at room temperature to give handling strength in approximately 5 minutes. This product is ideal for general purpose bonding. It is typically used for small component assembly and is suitable for applications that require a clear bond line. Features & Benefits: Fast setting Full cure at room temperature Adhesion to a variety of substrates Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-ET500-Epoxy-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ET500B, Amine Hardener
	1.17 g/cc	1.17 g/cc	ET500A, Epoxy Resin
Viscosity	12000 cP @Temperature 25.0 °C	12000 cP @Temperature 77.0 °F	ET500A, Epoxy Resin
	22500 cP @Temperature 25.0 °C	22500 cP @Temperature 77.0 °F	ET500B, Amine Hardener
Storage Temperature	5.00 - 25.0 °C	41.0 - 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	73	73	
Elongation at Break	7.0 %	7.0 %	
Adhesive Bond Strength	12.0 - 14.0 MPa	1740 - 2030 psi	Mild steel, Shear

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	80.0 °C	176 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Glass Transition Temp, Tg	40.0 °C	104 °F	

Processing Properties	Metric	English	Comments
Cure Time	4.00 - 6.00 min	0.0667 - 0.100 hour	handling time
	1440 min	24.0 hour	full cure

Processing Properties FOOTLINE	3.00 - 4.00 min Metric	3.00 - 4.00 min English	Comments
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Appearance	Colorless	Uncured
Maximum Gap Fill (mm)	2	
Strength Retention	10% at 150°C	Relative to 0°C
	100% at 0°C	Relative to 0°C
	30% at 100°C	Relative to 0°C
	93% at 50°C	Relative to 0°C

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