

Permabond ET514 Epoxy Resin

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

Material Notes:

PERMABOND ET514 is a 1:1 mixable epoxy adhesive. It has excellent resistance to impact and vibration and is ideal for structural bonding of metal, wood, composites and certain plastics. Its rapid cure speed coupled with its structural strength makes this adhesive suitable for a wide variety of applications. ET514 is high strength and has excellent environmental durability. Features & Benefits: Adhesion to a wide variety of substrates Rapid cure at room temperature Easy to apply High shear and peel strength Good impact strength Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-ET514-Epoxy-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ET514A, Epoxy Resin
	1.21 g/cc	1.21 g/cc	ET514B, Polyamine Hardener
Viscosity	60000 - 70000 cP @Temperature 25.0 °C	60000 - 70000 cP @Temperature 77.0 °F	ET514A, Epoxy Resin
	70000 - 80000 cP @Temperature 25.0 °C	70000 - 80000 cP @Temperature 77.0 °F	ET514B, Polyamine Hardener
Storage Temperature	5.00 - 25.0 °C	41.0 - 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68 - 72	68 - 72	
Elongation at Break	15 - 20 %	15 - 20 %	
Adhesive Bond Strength	18.0 - 20.0 MPa	2610 - 2900 psi	Mild steel, Shear
Peel Strength	1.80 - 2.40 kN/m	10.3 - 13.7 pli	ISO 4578

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	
Glass Transition Temp, Tg	40.0 °C	104 °F	

Processing Properties	Metric	English	Comments
Cure Time	40.0 - 60.0 min	0.667 - 1.00 hour	handling time
	1440 min	24.0 hour	full cure

Processing Properties	30.0 - 40.0 min Metric	30.0 - 40.0 min English	Comments
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Appearance	Black for Polyamine Hardener	
	White for Epoxy Resin	
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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