

## Permabond ET536 Epoxy Resin

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

### Material Notes:

PERMABOND ET536 is a two-part, 1:1 mixable epoxy adhesive with good adhesion to a variety of substrates such as wood, metal, ceramics and some plastics and composites. Permabond ET536 forms tough bonds providing high peel resistance and high shear strength. The extended work life of this product allows for adjustment and makes it more suitable for larger applications. Features & Benefits: Adhesion to a wide variety of substrates Full cure at room temperature Easy to apply High shear and peel strength Good impact strength Good chemical resistance Non-drip rheology Information provided by Permabond.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Permabond-ET536-Epoxy-Resin.php](http://www.lookpolymers.com/polymer_Permabond-ET536-Epoxy-Resin.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ET536B, Polyamine Hardener
	1.15 g/cc	1.15 g/cc	ET536A, Epoxy Resin
Viscosity	80000 cP	80000 cP	ET536A, Epoxy Resin
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Storage Temperature	500000 cP	500000 cP	ET536B, Polyamine Hardener
	@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
Hardness, Shore D	75	75	
Elongation at Break	10 %	10 %	
Adhesive Bond Strength	15.0 - 24.0 MPa	2180 - 3480 psi	Mild steel, Shear
Peel Strength	2.40 - 3.20 kN/m	13.7 - 18.3 pli	ISO 4578

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.550 W/m-K	3.82 BTU-in/hr-ft <sup>2</sup> -°F	
Glass Transition Temp, Tg	45.0 °C	113 °F	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 90.0 min	1.00 - 1.50 hour	handling time
	4320 min	72.0 hour	full cure

Processing Properties	30.0 - 45.0 min Metric	30.0 - 45.0 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)	5	
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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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