

## Permabond ET5401 Epoxy Resin

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

### Material Notes:

PERMABOND® ET5401 is a two-part, 2:1 mixable, semi-flexible toughened no slump epoxy adhesive with good adhesion to a variety of substrates such as wood, metal, ceramics and some plastics and composites. Permabond ET5401 forms tough bonds providing high peel resistance and high shear strength coupled with excellent resistance to high temperatures. ET5401 performance is enhanced by curing at high temperature or being exposed to high temperature (such as during paint-stoving). 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 High temperature resistance Non-drip rheology Information provided by Permabond.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Permabond-ET5401-Epoxy-Resin.php](http://www.lookpolymers.com/polymer_Permabond-ET5401-Epoxy-Resin.php)

Physical Properties	Metric	English	Comments
Storage Temperature	5.00 - 25.0 °C	41.0 - 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65 - 75	65 - 75	Cured at 25°C
	75 - 85	75 - 85	Cured for 1 hr at 80°C
Adhesive Bond Strength	6.00 - 8.00 MPa	870 - 1160 psi	FRP Glass Polyester, Shear; ISO 4587
	10.0 - 15.0 MPa	1450 - 2180 psi	Grit blasted mild steel, Shear; ISO 4587
	19.0 - 23.0 MPa	2760 - 3340 psi	FRP Glass Epoxy, Shear; ISO 4587
	22.0 - 24.0 MPa	3190 - 3480 psi	Carbon Fiber, Shear; ISO 4587
Peel Strength	20.0 - 30.0 MPa	2900 - 4350 psi	Mild steel, Shear; ISO 4587
	5.60 - 6.40 kN/m	32.0 - 36.5 pli	Cured for 1 hr at 80°C
	10.0 - 12.0 kN/m	57.1 - 68.5 pli	Cured for 15 mins at 200°C

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	full cure
	@Temperature 80.0 °C	@Temperature 176 °F	
	180 - 240 min	3.00 - 4.00 hour	handling time
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	5760 - 10100 min	96.0 - 168 hour	full cure
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
Pot Life	12.0 min	12.0 min	
	@Temperature 25.0 °C	@Temperature 77.0 °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	100% at 0°C	Relative to 0°C
	15% at 150°C	Relative to 0°C
	80% at 100°C	Relative to 0°C
	90% at 50°C	Relative to 0°C

## Contact Songhan Plastic Technology Co.,Ltd.

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