

## Permabond UV610 UV-curable Adhesive

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

### Material Notes:

PERMABOND UV610 is a single part, fast setting, UV curable adhesive designed specifically for bonding glass and metal. Its high strength makes it suitable for a wide range of applications including glass furniture where it is possible to create high strength edge joints. Features & Benefits: Cure on demand High shear strength Fast curing with low power lamps 100% solids, no solvents Excellent adhesion to metal and glass Information provided by Permabond.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Permabond-UV610-UV-curable-Adhesive.php](http://www.lookpolymers.com/polymer_Permabond-UV610-UV-curable-Adhesive.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	uncured
Viscosity	800 - 1000 cP @Temperature 25.0 °C	800 - 1000 cP @Temperature 77.0 °F	Uncured
Storage Temperature	5.00 - 25.0 °C	41.0 - 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	
Tensile Strength	17.0 MPa	2470 psi	ASTM D2095
Elongation at Break	95 %	95 %	
Adhesive Bond Strength	13.0 - 16.0 MPa	1890 - 2320 psi	Glass/steel, Shear

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	
Minimum Service Temperature, Air	-53.9 °C	-65.0 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.47	1.47	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.0 @Frequency 1.00e+6 Hz, Temperature 25.0 °C	4.0 @Frequency 1.00e+6 Hz, Temperature 77.0 °F	
Dielectric Strength	12.0 kV/mm	305 kV/in	

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Cure Time	0.183 min	0.00306 hour	fixture time, (low power 4mW lamp)
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Appearance	Translucent	Uncured
Cure Wavelength (nm)	365-400	
Maximum Gap Fill (mm)	0.3	
Strength Retention	10% at 200°C	Relative to 0°C
	100% at 0°C	Relative to 0°C
	30% at 150°C	Relative to 0°C
	75% at 100°C	Relative to 0°C
	95% at 50°C	Relative to 0°C

## Contact Songhan Plastic Technology Co.,Ltd.

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