

## Permabond UV625 UV-curable Adhesive

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

### Material Notes:

PERMABOND UV625 is a single part, fast curing, UV curable adhesive primarily designed for bonding and sealing glass and metal. The cured adhesive is tough, flexible and has excellent impact resistance. The gel-like viscosity and good depth of cure make it ideal for use on vertical surfaces or where large gaps are involved. Features & Benefits: Cure on demand Non-drip Flexible, good impact resistance 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-UV625-UV-curable-Adhesive.php](http://www.lookpolymers.com/polymer_Permabond-UV625-UV-curable-Adhesive.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	uncured
Viscosity	185000 cP @Temperature 25.0 °C	185000 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	65	65	
Tensile Strength	16.5 MPa	2390 psi	ASTM D2095
Elongation at Break	60 %	60 %	
Adhesive Bond Strength	10.0 - 11.0 MPa	1450 - 1600 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	0.0833 min	0.00139 hour	fixture time, (low power 4mW lamp)
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Appearance	Colorless Gel	Uncured
Cure Wavelength (nm)	365-400	
Maximum Gap Fill (mm)	2.5	
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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