

## Permabond UV648 UV-curable Adhesive

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

### Material Notes:

PERMABOND UV648 is a UV-curing adhesive developed for use on plastics. It has good adhesion to acrylic and contains a long-wavelength photo initiator to allow it to cure through UV-stabilized plastics. This adhesive can also be used to bond glass, metals and other materials. UV648 cures to give a colorless bond so is ideal for applications where aesthetic appearance is vitally important. Features & Benefits: Cure on demand Non-drip High shear strength Fast curing with low-power lamps 100% solids, no solvents Excellent adhesion to plastics

Information provided by Permabond.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Permabond-UV648-UV-curable-Adhesive.php](http://www.lookpolymers.com/polymer_Permabond-UV648-UV-curable-Adhesive.php)

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	
Tensile Strength	11.0 MPa	1600 psi	ASTM D2095
Elongation at Break	100 %	100 %	
Adhesive Bond Strength	>= 4.00 MPa	>= 580 psi	Plexiglass, Shear
	>= 4.00 MPa	>= 580 psi	PET, Shear
	>= 5.00 MPa	>= 725 psi	Polycarbonate, Shear

Optical Properties	Metric	English	Comments
Refractive Index	1.48	1.48	

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

Processing Properties	Metric	English	Comments
	<= 0.167 min	<= 0.00278 hour	Plexiglass, fixture time, (low power

<b>Cure Time</b> Processing Properties	Metric	English	4mW lamp Comments
	<= 0.167 min	<= 0.00278 hour	PET, fixture time, (low power 4mW lamp)
	<= 1.00 min	<= 0.0167 hour	Polycarbonate, fixture time, (low power 4mW lamp)
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Appearance	Clear, colorless gel	Uncured
Cure Wavelength (nm)	365-420	
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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