

Permabond UV620 UV-curable Adhesive

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

Material Notes:

PERMABOND UV620 is a single part, fast curing, UV curable adhesive. Its excellent optical clarity and resistance to yellowing make it ideal for bonding glass and crystal for a high quality finish. It is well suited for a variety of applications including glass furniture, decorative ornaments and other glass objects where high strength and appearance are required. Features & Benefits: Cure on demand Optically clear Resistant to yellowing 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-UV620-UV-curable-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	uncured
Viscosity	2000 - 3000 cP @Temperature 25.0 °C	2000 - 3000 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	62	62	
Tensile Strength	16.0 MPa	2320 psi	ASTM D2095
Elongation at Break	75 %	75 %	
Adhesive Bond Strength	9.00 - 10.0 MPa	1310 - 1450 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	1.49	1.49	

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	

Electrical Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
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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
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Appearance	Colorless, clear	Uncured
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Cure Wavelength (nm)	365-400	
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Maximum Gap Fill (mm)	1.5	
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Strength Retention	10% at 200°C	Relative to 0°C
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	100% at 0°C	Relative to 0°C
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	30% at 150°C	Relative to 0°C
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	75% at 100°C	Relative to 0°C
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	95% at 50°C	Relative to 0°C
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