

Permabond UV630 UV-curable Adhesive

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

Material Notes:

PERMABOND UV630 is a single part, fast setting, and UV curable adhesive designed specifically for bonding plastics. This material has excellent adhesion to a variety of plastics including polycarbonate. Permabond UV630 has very high shear strength, elongation and impact resistance making it ideal for applications that require substrates with different coefficients of thermal expansion. Protect liquid adhesive from room lighting. Features & Benefits: Cure on demand 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-UV630-UV-curable-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	uncured
Viscosity	200 - 300 cP @Temperature 25.0 °C	200 - 300 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	60	60	
Tensile Strength	14.0 MPa	2030 psi	ASTM D2095
Elongation at Break	110 %	110 %	
Adhesive Bond Strength	>= 9.00 MPa	>= 1310 psi	Polycarbonate, 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	

Electrical Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
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Cure Time	0.100 min	0.00167 hour	fixture time, (low power 4mW lamp)
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
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Appearance	Clear, colorless	Uncured
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Cure Wavelength (nm)	365-420	
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Maximum Gap Fill (mm)	0.2	
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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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