UV 107-168

ONE PART, UV CURABLE ADHESIVE

TECHNICAL DATA

Product Description

UV 107-168 is a medium viscosity fast curing urethane acrylate that bonds well to a wide variety of different substrates. It exhibits good surface wetting and adhesion to glass and a wide variety of plastic and metal based substrates. This product can be cured in 4-6 seconds when exposed to medium intensity UV radiation in the 300-400 nm range. This product requires direct UV exposure during cure. Because of the variability of different UV light sources it is suggested that the user test and specify UV intensity and exposure time. Low intensity UV light sources (200 mw/cm^2) may require as much as a 10 second exposure time.

APPLICATIONS	FEATURES	RECOMMENDED SUBSTRATES	BIOCOMPATIBILITY
• Glass to metal	• Medium viscosity	• Engineered plastics	ISO 10993-5
• Glass to plastic	• Fast cure	• Glass	
	• Good surface wetting	• Metals	

UNCURED PROPERTIES		
Property	**Value**	**Test Method**
Solvent Content	No Nonreactive Solvents	N/A
Composition	Acrylated Urethane	N/A
Appearance	Clear	N/A
Specific Gravity	1.05	QPTEST002
Viscosity @25C, Spn 5 @50RPM, cps	7,000 to 8,000	QPTEST001

CURED MECHANICAL PROPERTIES		
Property	**Value**	**Test Method**
Hardness, Shore D	65-70	QPTEST012
Elongation at Break, %	>200	N/A
Moisture Resistance	Excellent	N/A
Operating Temperature Range, C	-50 to 120	N/A

CURE OVERVIEW		
Property	**Value**	**Test Method**
Minimum Intensity, mw/cm^2	200	N/A
Spectral Output, Nm	300 to 400	N/A
Optimum Wavelength, Nm	365	N/A

Storage:

Store material in cool, dry location at a temperature between 10°C to 28°C. Keep from freezing. Material is sensitive to UV and visible light. Refer to packaging specific quote for shelf life information. Consult SDS for safe handling recommendations.

ISO - 10993

An ISO 10993 test protocol is an integral part of the quality program for 107-168. 107-168 has been qualified to Resin Designs ISO 10993 protocol as a means to assist in the selection of products for use in the medical device industry. Certificates of compliance are available through the Resin Designs quality department.

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