

## UV 071206-MV BLUE

### LOW STRESS PLASTIC AND METAL BONDER

#### TECHNICAL DATA

December, 2010

#### Product Description

The UV 071206-MV Blue is a medium paste viscosity, fast curing urethane acrylate that bonds well to most plastics and metal substrates. This one-part product cures in as little as 2 seconds when exposed to medium intensity UV light. Once cured the UV 071206-MV Blue provides resistance to a wide variety of different chemicals making it an ideal connector seal and small electronic device encapsulant. 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<sup>2</sup>) may require as much as a 10 second exposure time.

#### APPLICATIONS

- Connector sealing
- Electronic encapsulation

#### FEATURES

- Medium viscosity
- Fast curing
- UV curable
- Blue to clear cure indicator
- One component
- Chemically resistant

#### RECOMMENDED SUBSTRATES

- Plastics
- Metal

#### BIOCOMPATIBILITY

UNCURED PROPERTIES*		
Property	Value	Test Method
Solvent Content	No Nonreactive Solvents	N/A
Chemical Class	Acrylated Urethane	N/A
Appearance	Blue Liquid Gel	N/A
Specific Gravity	1.04	N/A
Viscosity @ 25C, RVT #3	450 to 1,050	ASTM D1084

CURED MECHANICAL PROPERTIES*		
Property	Value	Test Method
Durometer Hardness, Shore D	35	ASTM D2240
Elongation, %	120	ASTM D638
Operating Temperature Range, C	-50 to 150	N/A
Coefficient of Thermal Exp	62 ppm	DMA
Cure Shrinkage, Percent	4.2	TF103
Flash Point, F	>200	ASTM E228

UV LIGHT CURE DATA*		
Property	Value	Test Method
Minimum Intensity, mw/cm <sup>2</sup>	200	N/A
Spectral Output, Nm	300-415	N/A
Optimum Wavelength, Nm	415	N/A

#### Storage:

Store below 25C out of sunlight and in tightly sealed containers. Six month shelf life in syringes. One year shelf life in bulk containers. Refer to packaging specific quote for shelf information.

Revision Number: 1-New Date: 01 December, 2010

Resin Designs, LLC 11 State Street Woburn, MA 01801 www.resindesigns.com P 781-935-3133 F 781-935-3144

*Resin Designs, LLC makes no express or implied warranties or merchantability, fitness or otherwise with respect to this product. In addition, while the information contained herein is believed to be reliable, no warranty is express or implied regarding the accuracy of the results to be obtained from the use thereof. The properties given are typical values and are not intended for use in preparing specifications. User should make their own test to determine the suitability of this product for their own purposes.*