C.R. Laurence Australia Pty, Ltd.
crlaurence.com.au

CRL UV40M UV ADHESIVE - Medium Viscosity

PRODUCT DESCRIPTION

UV40M is a photo-curing adhesive that is able to cure rapidly under the ultraviolet light (365nm) or visible light (436nm). Cured resin demonstrates good toughness and thermal shock resistance. This resin provides stable adhesion to alloys which are difficult to bond with ordinary adhesives. UV40M has medium viscosity and excellent permeability. It is suitable for bonding of glass to glass as well as glass to metal, including large surface areas.

FEATURES

1. The resin exhibits excellent transparency, toughness, shock resistance and thermal shock resistance after curing.
2. The product is reliable and stable and it also has weather-proof ability plus perfect age-resistance.
3. The medium viscosity of this resin allows this resin to penetrate into small gaps by capillary effect too.

UNCURED PROPERTIES

COMPOSITION	Acrylic resin
VISCOSITY	800 - 1,300 cps @ 25°C (S21 10 rpm)
APPEARANCE	Colourless Liquid
SOLVENT CONTENT	0%
FLASH POINT	>89 °C
TOXICITY	Refer to SDS
SHELF LIFE	One year minimum shelf life when stored under shades, room temperature (14~34°C), and in sealed containers.

CURED PROPERTIES

DUROMETER	Shore D 64 +/-2
WATER ABSORPTION	2.7% (7 days)
TEMPERATURE RANGE	-40 to 100°C
SHEAR STRENGTH	202.98 kg/cm2 (Substrate Failure)

CURING INFORMATION

UV LIGHT	310~365nm or 436nm
UV INTENSITY	>50 mW/cm^2
UV LIGHT ENERGY	1,500-3,000 mJ/cm^2
SUBSTRATES	Glass to Glass, Glass to Metal, some Plastics
BOND GAP	-
TIME TO CURE	Depends on various factors, such as part geometry, materials to be bonded, bond-line thickness and efficiency of the UV light

DIRECTION OF USE

1. The product should be dispensed from applicators with black feed lines.
2. For best performance bond surfaces should be clean and free from grease. Simple solvent wipe is generally sufficient.
3. Cure rate is dependent on various factors such as lamp intensity, distance from light source, depth of cure needed or bond line gap and light transmittance of the substrate through which the radiation must pass. Test before use.
4. Excess uncured adhesive can be wiped away with organic solvent.
5. Bonds should be allowed to cool before subjecting to any service loads.

THESE ARE TYPICAL PROPERTIES AND ARE NOT MEANT TO BE PRODUCT SPECIFICATIONS

Note: The information contained in this data sheet is believed to be reliable. C.R. LAURENCE CO., INC. makes no representation or warranties of any kind concerning this information. It is the user's responsibility to determine the suitability of this product for any intended use. The user assumes all risk and liability connected with the use of this product.

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