

Description

UV 772-5R2 is a low viscosity UV curable adhesive. The cured material has excellent flexibility, good toughness, low cure shrinkage and good adhesion to a variety of substrates, including metals, glass, ceramics and plastics. It is suitable for instant bonding or coating. It can be cured in seconds when exposed to ultraviolet light. It is suitable for bonding of electronic components.

Features

- Low viscosity
- Fast curing speed
- It has a fluorescent agent for easy inspection under UV light

Applications

- UV curable acrylate adhesive designed for use in electric, electronic, medical devices and automotive application.

Uncured Properties	Typical Value	Unit	Test Method
Color	Clear transparent	-	PEN 10
Viscosity at 25°C	500	cP	ASTM D4287
Specific gravity at 25°C	1.08	-	PEN 14
Cured Properties	Typical Value	Unit	Test Method
Hardness	70	Shore D	ASTM D2240
Cure Depth	<2.5	mm	PEN 124
Glass Transition Temperature, Tg	73	°C	ASTM D4065-12
Reflective Index @ 589nm	1.486		ASTM D1218
CTE, -1	78	ppm/K	ASTM E831-03
CTE, -2	171	ppm/K	ASTM E831-03
Lap Shear Strength @			
ABS to PC	20	kgf/cm ²	PEN 43
ABS to PVC	8	kgf/cm ²	PEN 43
Die Shear Strength @			
Ceramic chip to PC	75	kgf/cm ²	PEN 93
Ceramic chip to Glass	68	kgf/cm ²	PEN 93
Storage Modulus @ -40°C	1162	MPa	ASTM D4065-12
Storage Modulus @ 30°C	818	MPa	ASTM D4065-12
Storage Modulus @ 100°C	3	MPa	ASTM D4065-12
Linear Shrinkage	1.99	%	PEN 56

* The values above are tested based on batch to batch basis. These values are not used as a basis for preparing specifications.

* PEN is referring to Penchem's standard test method; ASTM is for test reference only.

* N/A is referring to not applicable.

Guideline of Use

Direction for use

- 1) This product may be dispensed with a variety of manual and automatic applicators or other equipment as required. The user is responsible to determine the suitability of the product for all intended uses.

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Penchem Technologies Sdn Bhd (767120-A),

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- 2) For dispensing process, placed the thawed syringe on the dispensing equipment immediately. Care must be exercised to avoid air and contaminants entrapment into the adhesive.
- 3) It is recommended to use the product within work life. The work life is varies by difference environment condition and application.
- 4) The substrate should be clean and free from grease, mould release, or other contaminants prior to dispensing the adhesive.

Recommended Cure

Cure condition:

Wavelength 320 to 380nm, 330 mW/cm² for 120s.

UV curing is a function of lamp type, intensity, mass and thickness of adhesive, distance of lamp to adhesive, and type of substrate. One of the substrates must transparent to lamp wavelength applied, to minimize light loss.

Storage & Shelf Life

This product has a 6 months shelf life from date of manufacturing, unless otherwise specified, when stored at cool and dark place in the original and unopened container.

Packaging

- 5 ml syringe
- 10 ml syringe
- 30 ml syringe
- 500ml plastic bottle
- 1L plastic bottle

Other packaging enquiry, please contact our sales department.

Environment, Health & Safety

This product is intended for industrial use only. For more safety information, please refer to Product Safety Data Sheet (SDS).

General Information

All right reserved. This information in this document is subjected to change without notice.

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