



H.B. Fuller

Cyberbond

RBUV257A TECHNICAL DATA SHEET

RBUV257A is a low-viscosity UV-curable with excellent bonding characteristics on various plastics, especially PET/ PETG and polycarbonate. Its thin viscosity makes it ideal for use in wicking applications, especially on components with close-fitting tolerances.

Physical Properties - Monomer (Uncured)

Base Compound	Modified Acrylate
Appearance	Clear Liquid
Viscosity	50 +/- 15 cps
Shelf Life	12 months
Storage Condition	8°C to 21°C in darkness
RoHS-Compliant	Yes

Physical Properties - Polymer (Cured)

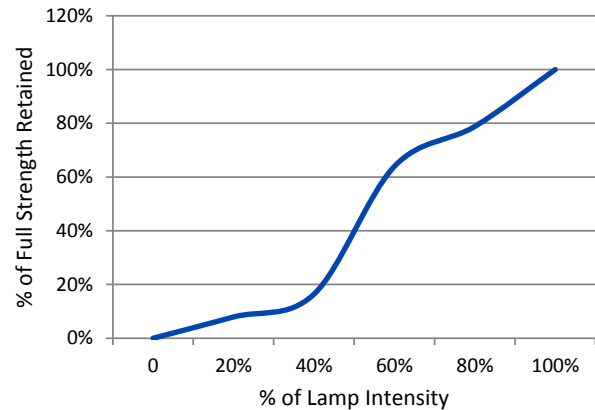
Setting Time*	< 3 seconds
Appearance	Colorless Solid
Tack-Free Surface?	Yes
Elongation	150%
Shore Hardness	63 (Shore A) 54 (Shore D)
Optimal Wavelength	320 to 400 nm

*Polymerized @ 395nm @ 50mW/cm²

Specifications and Approvals

None

% Strength Retained @ Given Dosage



Performance of Cured Adhesive

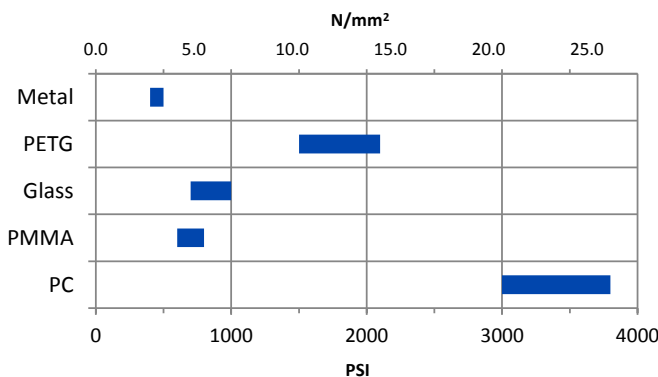
Substrate	N/mm ²			PSI		
	Min	Max	Range	Min	Max	Range
Metal	2.8	3.4	to	400	500	to
PETG	10.3	14.5	to	1500	2100	to
Glass	4.8	6.9	to	700	1000	to
PMMA	4.1	5.5	to	600	800	to
PC	20.7	26.2	to	3000	3800	to

* n/r = not recommended for use on this substrate

Solvent Resistance

Solvent	Example	Resistance
Alcohol	Ethanol, Methanol	+++
Ester (aromatic)	Ethylacetate	---
Ketone (aromatic)	Acetone, Benzophenone	---
Aliphatic hydrocarbon (alkanes)	Petrol, Heptanes, Hexane	+-
Aromatic hydrocarbons	Benzyl, Toluol, Xylol	+-
Halogenated hydrocarbons	Methylenchloride, Chloroform, Chlorobenzol	---
Weak aqueous acid	Nitrite, muriatic acid, sulphuric acid, phosphoric acid	+++ (--- if concentrated)
Weak aqueous base	sodium hydroxide solution, caustic potash	+++ (--- if concentrated)

Performance Range, by Substrate



General Instructions

Surfaces to be bonded should be clean and dry. Dispense a drop or drops to one surface only. Apply only enough to leave a thin film layer after compression. Press parts together and expose to energy when ready. An adequate bond will develop rapidly, depending on UV dose efficacy, and maximum strength is achieved when the adhesive reaches full cure. Bonds should be allowed to cool before applying any stress.

Curing Performance

Photoinitiation initiates the curing process. Handling strength is reached in a short time, and will vary based on UV dose efficacy, environmental conditions, bond line gap, and other factors. Product will continue to cure for at least 24 hours before full strength and solvent resistance is developed.

Storage

Products should be stored unopened in a cool, dry place out of direct sunlight. Products should be kept at room temperature away from direct light. Protect from extreme heat or cold, optimum temperature is between 8°C and 21°C.

Note

The data contained herein are furnished for information only and are believed to be reliable. Cyberbond cannot assume responsibility for the results obtained by others over whose method Cyberbond does not control. It is the user's responsibility to determine suitability for the product or of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Cyberbond specifically disclaims all warranties of merchantability or fitness for a particular purpose arising from sale or use of Cyberbond products. Cyberbond specifically disclaims any liability for consequential or incidental damages of any kind, including loss of profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Cyberbond patents which may cover such processes or compositions. We recommend that each prospective user test the proposed application to determine its suitability for the purpose intended prior to incorporating any product or application in its manufacturing process using the data as a guide.

For safe handling information on this product, consult the Safety Data Sheet (SDS)

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