



TECHNICAL DATA SHEET Tacusil UVA0243FS

2/8/2023

DESCRIPTION:

Tacusil UVA0243FS is Polyurethane modified acrylic resin UV glue. It's medium viscosity with thixotropy and for general purpose application. It bonds well to engineered plastics, En-plating metal substrates and stainless steel. This product doesn't contain no-reactive solvent and fast cure upon exposure to UV light.

Because of oxygen inhibition on its surface during curing process, short wave-length UV light as 260nm will reduce its surface tacky. This product is Halogen free and full complaint with RoHS directive 2011/65/EU and Reach directive 1907/2006(SVHC: 235 Items)

FEATRURES :

- General purpose
- High flexibility and bonding strength to low surface energy metal substrate
- No VOCs, easy operation

TYPICAL PROPERTIES:

All properties given are at 25 °C unless otherwise noted.

Property:	Value:	Test Method or Source:
Color	Translucence	Visual
Cure Schedule		
The minimum UV light intensity(365LED)	200mw/cm2	Power Puck II Radiometer
Typical Curing time(0.5mm thickness)	30s	
Viscosity	15500cps @1/s	Rheometer parallel plate 25mm@1/s
Thixotrophy area	600 Pa.s	
Specific Gravity	1.05	ASTM D 1875
Hardness	55A	ASTM D2240
Tensile Properties:		ASTM D638/MTS
Strength	1100psi	
Elongation	100%	
Lap shear strength		ASTM D1002
PC/PC	6Mpa(SF)	
PC/SS304	6.8Mpa(PC substrate fail)	
PC/En-plating Fe	5Mpa	
Non volatile content*	100	N/A
Coefficient of Thermal Expansion	180ppm	ASTM E831
Linear Shrinkage*	2%	ASTM2556
Service temperature	-40~125C	

* Asterisk denotes values considered typical to associated resin systems or extrapolated from other test results.

** This TDS contains values that have been updated. The values reported in this technical data sheet are typical values of the product, and are highly dependent on test conditions and methodology.

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INSTRUCTIONS:

- 1 This product cured with exposure to UV and visible light. Dispensing components including needles and fluid lines should be 100% light locking not just UV blocking.
- 2 For best performance bond surfaces should be clean and free from grease. Good exhaustion is necessary in the curing circumstance.
- 3 Cure speed is dependent upon many variables including lamp intensity, adhesive thickness and percent light transmission of components.
- 4 Oxygen in the atmosphere may inhibit surface cure. UVC light and high inert gas content in curing ambient will help to eliminate this surface tacky.

SHELF LIFE AND STORAGE:

Store product in the unopened container in a dry location.

Optimal Storage: 10 °C to 32 °C.

Shelf life: 9months

Material removed from containers may be contaminated during use. Do not return product to the original container. KPHZ cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated.

NOTES:

This product is intended for industrial use only. Keep it way from children. Personal protection wearing in necessary in using this adhesive including gloves, glass and face mask. In case contact it, remove it with soap and water. Make sure the operator to know clearly its safety information in SDS before use.