

HumiSeal® Vivid Cure™ UV 6061T

Technical Data Sheet

OPTICALLY CLEAR SIDE SEAL (OCSS)

The Vivid Cure™ UV 6061T is a thixotropic, fast curing urethane acrylate that bonds well to most glass and plastics.

APPLICATIONS	FEATURES	SUBSTRATES
<ul style="list-style-type: none"> • Touch Screen Display • Structural Support • Damming Material • Supports Bond Line Thickness 	<ul style="list-style-type: none"> • Thixotropic • Non Yellowing, Clear • Moisture Resistant • UVA Curable 	<ul style="list-style-type: none"> • Plastics • Glass • Metals

Typical Properties of Uncured HumiSeal® Vivid Cure™ UV 6061T

Chemical Class	UV Acrylate
Appearance	Clear
Viscosity @ 25°C, Spindle 6 @ 10 RPM, cps	30,000 to 80,000
Specific Gravity	0.91
Cleanup Solvent	Isopropyl alcohol

UV Curing Guidelines*

HumiSeal Vivid Cure™ UV 6061T adhesive has been formulated to allow flexibility in the curing process. HumiSeal Vivid Cure™ UV 6061T can be cured using full spectrum mercury vapor light systems as well as 365nm and 395nm LED systems. The table below details minimum dosage values required to properly crosslink HumiSeal Vivid Cure™ UV 6061T

Due to the spectral output differences emitted between LED and mercury vapor systems, wavelength specific minimum requirements will vary. 365nm is the preferred wavelength due to its efficiency in crosslinking the HumiSeal Vivid Cure™ UV 6061T.

“Note, adhesive thickness range of 700 – 750 microns was used during the development of the minimum required dosage values recommended below. If a different adhesive thickness is used, process adjustments may be required.”

Vivid Cure™ UV 6061T Recommended Minimum Dose (J/cm ²) Requirements	
Wavelength (nm)	UVA
365nm	1.7
395nm	1.9
Full Spectrum Mercury Vapor	2.6

Values measured with an EIT Powerpuck II

* These values are for guidelines only and not meant to be used as a specification

It is recommended that you contact HumiSeal technical support to discuss your application and review the required recommended minimum cure requirements.

Typical Properties of Cured Material**

Glass Transition Temperature (T _g), °C	-45 to -50
Operating Temperature Range, °C	-50 to 125
Shore Hardness, 00	32

**All properties given are typical values and are not intended for use in preparing specifications.

Storage & Handling

HumiSeal Vivid Cure™ UV 6061T should be stored between 8°C - 28°C in tightly closed, light-blocking containers, away from direct sunlight. Keep from freezing. Allow material to equilibrate to process area temperature for 24 hours before use. Please refer to product labeling for shelf-life information. While the material can be heated to facilitate degassing prior to use, this operation should be conducted only on the amount of adhesive to be immediately used. Multiple heating cycles of the bulk container or elevated temperature storage of HumiSeal Vivid Cure™ UV 6061T should be avoided. Consult SDS for full safety information.

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