

CIP-UV110T

Technical Data Sheet

CIP-UV110T is a highly thixotropic, one-part, UV-curable urethane acrylate with excellent flexibility and resilience. The high viscosity and thixotropic properties of CIP-UV110T allows for non-sag behavior during application.

APPLICATIONS	FEATURES	SUBSTRATES
<ul style="list-style-type: none"> Gaskets 	<ul style="list-style-type: none"> High viscosity 	<ul style="list-style-type: none"> Plastics
<ul style="list-style-type: none"> Vibration Dampening 	<ul style="list-style-type: none"> Non-sag 	<ul style="list-style-type: none"> Metals
	<ul style="list-style-type: none"> High Thixotropic Index 	<ul style="list-style-type: none"> Ceramics

Typical Properties of Uncured Material*

Chemical Class	Acrylated urethane
Color	Transparent Clear
Viscosity @25°C, Spn7 @5RPM, cps	300000 to 700000
Viscosity @25°C, Spn7 @20RPM, cps	100000 to 200000
Specific Gravity	1.13
Cleanup Solvent	Isopropyl alcohol

UV Light Cure Guidelines*

Recommended Curing Spectrum	UVA
Minimum dosage required, J/cm ²	3

Typical Properties of Cured Material*

Durometer, Shore A	40
Elongation, %	130
Tensile Strength, MPa, [psi]	1.3, [190]
Water Absorption @ 25°C for 24 hr, %	9
Compression Set @ 25°C for 22 hr, %	5
Temperature at 1% wt. loss, °C	185
Processing Temperature Range, °C	-50 to 100

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

Heat is also an important component with UV cure, and different systems produce different heat outputs. Cure testing was done in an open system and results will vary with application. Consequently, Resin Designs recommends that curing is discussed with our Technical staff to ensure the exact customer process being used will meet the coating cure requirements.

CIP-UV110T was designed to be cured using a microwave UV oven. Arc and LED systems may cure CIP-UV110T; however, care must be taken during the equipment selection process to ensure minimum dosage and irradiance values obtained will properly cure the coating. Because of the variations possible in curing equipment type and configuration, it is strongly recommended that you contact Resin Designs Technical Support to discuss your equipment and process in detail.

Keep stored between 8°C and 28°C in tightly closed, light-blocking containers away from direct sunlight. Keep from freezing. Please refer to product labeling for shelf-life information. Consult SDS for safe handling recommendations.

RESIN DESIGNS MAKES NO EXPRESSED OR IMPLIED REPRESENTATIONS OR WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WITH RESPECT TO THIS PRODUCT AND GUARANTEES NO PARTICULAR OUTCOME OR RESULT FROM ITS USE. RESIN DESIGNS' LIABILITY TO CUSTOMER WITH RESPECT TO THIS PRODUCT SHALL IN NO EVENT EXCEED THE AMOUNT PAID BY CUSTOMER FOR IT. APPLICATION OF THIS MATERIAL SHOULD COMPLY WITH LOCAL AND NATIONAL HEALTH AND SAFETY REGULATIONS.