

CIP-UV120-FR

Provisional Technical Data Sheet

CIP-UV120-FR is a flame-resistant version of CIP-UV120-HV. CIP-UV120-FR has a paste-life viscosity for applications requiring non-sag behavior and high thixotropic index allowing easy dispensing. CIP-UV120-FR is Reach and RoHS compliant.

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 paste 	<ul style="list-style-type: none"> Metals
	<ul style="list-style-type: none"> Flame resistant 	<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	80000 to 100000
Viscosity, @25°C, Spn7 @50RPM, cps	15000 to 25000
Specific Gravity	1.14
Cleanup Solvent	Isopropyl alcohol

UV Light Cure Guidelines*

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

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-UV120-FR was designed to be cured using a microwave UV oven. Arc and LED systems may CIP-UV120-FR; 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.

Typical Properties of Cured Material*

Durometer, Shore A	50
Elongation, %	220
Tensile Strength, MPa, [psi]	2.5, [360]
Water Absorption, %, 25°C for 24 hr	<1
Compression Set, %, 25°C for 22 hr	5
Flammability**	UL 94 V0

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

**** Flammability tested in-house with 1 mm thick samples, FR4 substrate, using conditions similar to UL94 flame chamber.**

Storage

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.



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