

CIP-UV120HV

Technical Data Sheet

CIP-UV120HV is a soft, high viscosity, one-part UV cure-in-place gasket material with excellent moisture resistance and vibration dampening that provides selective release from bonded or coated substrates. The high viscosity of CIP-UV120HV assists with applications that require reduced sagging.

APPLICATIONS	FEATURES	SUBSTRATES
<ul style="list-style-type: none"> Gasket 	<ul style="list-style-type: none"> RoHS & Reach Compliant 	<ul style="list-style-type: none"> Plastics
<ul style="list-style-type: none"> Vibration Dampening 	<ul style="list-style-type: none"> High Viscosity 	<ul style="list-style-type: none"> Metals
	<ul style="list-style-type: none"> Water Resistant 	<ul style="list-style-type: none"> Glass

Typical Properties of Uncured Material*

Chemical Class	Acrylated urethane
Color	Clear
Viscosity @25°C, Spn7 @5RPM, cps	80000 to 110000
Viscosity @25°C, Spn7 @50RPM, cps	40000 to 60000
Specific Gravity	1.16
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	45
Elongation, %	150
Tensile Strength, MPa, [psi]	1.2, [175]
Glass Transition Temperature (T _g), °C	-50
Compression Set at 25°C for 22 hr, %	5
Water Absorption at 25°C for 24 hr, %	2
Temperature at 1% wt. loss, °C	175
Operating Temperature Range, °C	-50 to 150

***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-UV120HV was designed to be cured using a microwave UV oven. Arc and LED systems may cure CIP-UV120HV; 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.



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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