CIP-UV130

Technical Data Sheet

CIP-UV130 is a UV-curable, non-sag, urethane acrylate paste that bonds well to engineered plastics and metal substrates. Once cured, CIP-UV130 is ideal for cure-in-place gasket applications that benefit from a slight tack to maintain substrate contact.

APPLICATIONS	FEATURES	SUBSTRATES
• Gaskets	• Non-sag	• Plastics
	• UV-curable	• Metals
	• Slight surface tack	

Typical Properties of Uncured Material*

Chemical Class	Acrylate urethane
Color	Clear
Viscosity, @25°C, Spn4 @1RPM, cps	60000 to 95000
Viscosity, @25°C, Spn4 @10RPM, cps	12000 to 18000
Specific Gravity	1.05
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	60
Elongation, %	530
Tensile Strength, MPa, [psi]	5.7, [830]
Compression Set at 25°C for 22 hr, %	20
Water Absorption at 25°C for 24 hr, %	12
Temperature at 1% wt. loss, °C	130
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. After UV exposure and return to room temperature the coating retains some tack.

CIP-UV130 was designed to be cured using a microwave UV oven. Arc and LED systems may cure CIP-UV130; 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.

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