FAST RADIUS.

Chemical compatibility for additive manufacturing materials

Key	Rating	Description
E	Excellent	Material is unlikely to degrade during prolonged exposure
G	Good	Material is unlikely to degrade during short-term exposure
F	Fair	Material will likely degrade during short-tern exposure
P	Poor	Material will likely degrade upon immediate exposure

		CARBON DIGITAL LIGHT SYNTHESIS (DLS™)							
	CHEMICAL DESCRIPTION	RPU 70	RPU 130	CE 221	EPX 82	EPX 86FR	EPU 40	EPU 41	SIL 30
HOUSEHOLD CHEMICALS	Bleach (NaClO, 5%)	E		E	E	E	E	E	E
	Sanitizer (NH4Cl, 10%)	E		E	E	E	E	E	G
	Chlorine Salts								
	Hot water								
	Deionized Water								
	Distilled Water	E		E	E	E	E	E	G
	Sunscreen (Banana Boat, SPF 50)	E	G	E	E	E	G	P	G
	Detergent (Tide, Original)	E		E	E	E	E	G	G
	Windex Powerized Formula	E		E	E	E	G	G	G
	Hydrogen Peroxide (H2O2, 30%)	E		E	E	E	F	F	F
	Alcohol/Ethanol	F		E	G	E	P	P	P
	Phenols								
	Esters								
	Ethers								
	Ketones								
	Aliphatic hydrocarbons (methane, propane, butane)								
	Aromatic hydrocarbons (benzene)								
	Halogenated hydrocarbons (CFCs)								
	Ketones (MEK, acetone)								
	Chlorinated hydrocarbons								
	Trichloroethylene								
INDUSTRIAL FLUIDS	Motor Oil								
	Windshield Washer Fluid								
	Engine Oil (Havoline SAE 5W-30)	E	E	E	E	E	E	E	E
	Brake Fluid (Castrol DOT-4)	E		E	E	E	F	F	P
	Airplane Deicing Fluid (Type I Ethylene Glycol)	E		E			E		E
	Airplane Deicing Fluid (Type I Propylene Glycol)	E		E			E		G
	Airplane Deicing Fluid (Type IV Ethylene Glycol)	E		E			E		E
	Airplane Deicing Fluid (Type IV Propylene Glycol)	E		E			E		G
	Transmission Fluid (Havoline Synthetic ATF)	E	E	E	E	E	E	E	E
	Engine Coolant (Havoline XLC, 50%/50% Premixed)	E		E	E	E	E		E
	Petroleum Greases								
	Silicone Greases								
	Diesel (Chevron #2)	E	F	E	E	E	P	P	F
	Gasoline (Chevron #91)	P		E			P		P
	Skydrol 500B-4	G		E	E	E	P	P	P
STRONG ACID/BASE	Sulfuric Acid (H2SO4, 30%)	E		E	E	E	P	F	P
	Sodium Hydroxide (NaOH, 10%)	E		E	E	E	E		E
	Diluted alkalies								
	Concentrated alkalies								

Source: Carbon, Inc.

Note: Due to variability in part geometry and level of exposure in actual use, it is required that adequate validation is done for production applications