

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-term exposure
P	Poor	Material will likely degrade upon immediate exposure

HP MULTI JET FUSION (MJF)

CHEMICAL DESCRIPTION

PA 12

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