ONYX CHEMICAL RESISTIVITY



Material	Onyx	ABS	Delta
Acetone	Α	D	+++
Ammonium Carbonate Aq.	Α	*	
Ammonium Chloride Aq.	А	*	
Amyl Acetate	Α	D	+++
Barlium Chloride Aq.	Α	*	
Benzene	А	D	+++
Boric Acid Aa.	Α	*	
Camphor	Α	*	
Carbon Tetrachloride	A	D	+++
Chrome Alum Ag	Δ	*	
Creosote	Δ	*	
Cyclobexanone	A	*	
	^	*	
Detergents, Organic	AA	*	
	A		
	A	~ ~	
	A	•	
Ether, Diethyl	A	*	
Ethyl Acetate	Α	D	+++
Freon 12 (Arcton 12)	Α	*	
Glycerine	Α	Α	=
Heptane	А	*	
Linseed Oil	А	*	
Lubricating Oils (Petroleum)	Α	*	
Magnesium Chloride Aq.	Α	*	
Methyl Acetate	Α	*	
Methyl Ethyl Ketone	А	D	+++
Mineral Oils	А	*	
Naphthalene	Α	D	+++
Nickel Sulphate Ag.	Α	*	
Oleic Acid	Α	*	
Paraffin	Α	*	
Petrol	A	*	
Potassium Bicarb, Ag.	A	*	
Potassium Chloride Ag	Δ	Δ	
Potassium Ferrocyanide Ag	Δ	*	_
Propane Gas	A	*	
	AA	*	
	A	D	
	A	D	+++
	A	-	
Soap Solutions	A .	<u>В</u>	+
Sodium Bicarbonate Aq.	A	*	
Sodium Nitrate Aq.	Α	*	
Stearic Acid	Α	*	
Styrene (Monomer)	Α	*	
Tallow	Α	*	
Toluene	Α	D	+++
Transformer Oil	Α	*	
Triethanolamine	Α	*	
Turpentine	А	D	+++
Urea	Α	*	
Vaseline	Α	В	+
Vegetable Oils	Α	С	++
Vinvl Chloride	Α	*	
Water	A	Α	
Wax (Molten)	Δ	<u>с</u>	++
White Snirit	A	*	
	н П	~	
Acetaldenyde Aq.	в	U	++

Material (Continued)	Onyx	ABS	Delta
Alcohols, Aliphatic	В	*	
Butanol	В	*	
Butyric Acid Aq.	В	*	
Cyclohexanol	В	*	
Ethylene Dichloride	В	D	++
Ethylene Glycol Aq.	В	*	
Formaldehyde Aq.	В	*	
Formic Acid Aq.	В	*	
Hydrogen Sulphide Aq.	В	*	
Hydroquinone	В	*	
Isopropylalcohol	В	С	+
Lead Acetate Aq.	В	*	
Phthalic Acid Aq.	В	*	
Sodium Acetate Ag.	В	*	
Sulphur Dioxide (Dry Gas)	В	D	++
 Tar	В	*	
Trichlorethylene	В	*	
Acetic Acid Ag.	С	*	
Ammonia Gas	С	*	
Anillne	С	*	
Antimony Trichoride Ag.	С	*	
Bleaching Lye	С	С	=
Butvric Acid	С	D	+
Chromic Acid Aq.	С	*	
Citric Acid Ag.	С	В	-
Ferrous Chloride Ag.	С	*	
Hydrofluoric Acid Ag	С	*	
Hydrogen Peroxide Ag.	С	*	
Lactic Acid Ag.	С	*	
Methyl Chloride	С	*	
Nitric Acid Ag.	С	В	-
Oxalic Acid Ag.	С	*	
Ozone	С	*	
Stannic Chloride Ag.	C	*	
Sulphuric Acid Ag.	C	В	
Vinegar	С	Α	
Zinc Chloride Ag.	C	*	
Benzene Sulphonic Acid	D	*	
Bromine Ag.	D	*	
Calcium Hypochlorite	D	*	
Chloral Hydrate	D	*	
Chlorine Ag.	D	*	
Chloroform	D	D	=
Chlorosulphonic Acid Ag	D	*	
Cresvlic Acid	D	*	
Fluorine	D	*	
Hydrobromic Acid Ag.	D	А	
Hydrogen Peroxide Ag	– D	*	
Iodine (in Pot Iodine) Ag.	_ D	*	
Perchloric Acid Aa.	_ D	*	
Phenol Aa.	- D	*	
Phosphoric Acid Ag.	D	*	
Chlorine Bleach	- D	*	
Sulphurous Acid Aa.	D	*	
Xvlene	_ D	D	=
Agreene		0	-

The information in this chart has been collected from reputable sources, but applies only generally to nylon and ABS (and is not specific to any formula-tion or to composite materials). However, because resistances can be affect-ed by concentration, temperature, other chemicals and many environmental factors, this information is only a general guide, and testing under the specif-ic conditions of your application is necessary. Carbon fiber encapsulated in Onyx material is highly inert and typically isolated from the environment by the nylon matrix, but in exceptional cases where a chemical or environment may affect the embedded carbon fiber, specific testing will be necessary.

properties. B - Slight attack by absorption. Some swelling and a small reduction in B - Sight attack by absorption. Some swenning and a small reduction in mechanical likely.
C - Moderate attack of appreciable absorption. Material has limited life.
D - Material will decompose or dissolve in a short time.
SOURCE: www.plasticsintl.com/plastics_chemical_resistence_chart.html

A - No Attack, possibly slight absorption. Negligible effect on mechanical

LEGEND

Markforged does not warrant (neither express nor implied) that the information in this chart is accurate or complete or that any material is suitable for any purpose.