BioPointe Scientific®

PROPERTIES OF POLYPROPYLENE

This information page about polypropylene plastic resin is constructed from data from multiple sources. It is intended as a guide only in relation to BioPointe Scientific laboratory products. No guarantee or warranty is suggested or implied in respect to any of the information on this page, nor is any liability accepted under any circumstances.

Physical

Plastics Used	Polypropylene
Optical Properties	Clear to opaque
Physical Properties	Rigid, high tensile strength, resistant to stress fracture, flexible in thin sections
Autoclavable	Yes
Temperature Range	-196°C to +135°C

Sterilization

All of BioPointe Scientific polypropylene lab products, including Filter Tips, may be sterilized in an autoclave. While a shorter steam exposure cycle is often preferable, the typical autoclave cycle for plastic consumable products is 121°C/250°F, for 15 minutes, at 15psi/1atm. After steam exposure is complete, use only an air drying cycle. Do not use a heated drying cycle, as this may cause deformation or weakening of any plastic products.

BioPointe Scientific also offers many products that have been pre-sterilized by gamma irradiation. All of these sterile products are packaged in hermetically-sealed (vacuum-packed) nylon pouches to totally protect the contents from contamination until they are opened and ready for use. It is therefore guaranteed that BioPointe Scientific products will remain sterile for at least 3 years. Visual display of their sterility is indicated by small round color-changing labels placed on all inner cartons and on outer shipping cases. The sterilization information can be cross-referenced by the four digit number on the Lot Number labels which are placed on every carton and case.

Chemical

	Rating*	
Acids	**20°C**	**60°C**
Benzoic acid	G	G
Boric acid	E	E
Hydrobromic acid 25 %	G	A
Citric acid	E	E
Hydrocyanic acid	G	G
Hydrofluoric acid	G	G
Phosphoric acid 25 %	E	E
Phosphoric acid 85 %	E	E
Phthalic acid	E	E
Tannic acid	E	E
Chromic acid	E	G
Maleic acid	E	E
Oleic acid	G	A
Oxalic acid	E	E
Nitric acid 5 %	G	A
Nitric acid 65 %	U	U
Chlorhydric acid 10 %	E	E
Chlorhydric acid 37 %	G	A
Butyric acid	E	E
Sulphuric acid 10 %	E	E
Sulphuric acid 78 %	G	U
Sulphuric acid 93 %	A	U
Tartaric acid	E	E
Acetic acid 50 %	E	E
Acetic acid 100 %	G	A
Trifluoroacetic acid (TFA) 20%	A	U
Perchloric acid	E	G
Bases		
Aqua ammonia	E	E
Calcium hydroxide	E	E
Potassium hydroxide	E	E
Caustic soda	E	E
Acid salt	E	E

	Rating*	
	20°C	**60°C**
Basic salt	E	E
Neutral salt	E	E
Potassium bicarbonate	E	G
Potassium permanganate	E	G
Sodium cyanide	E	E
Natrium ferricyanide	E	G
Sodium hypochlorite	G	A
Organic Solvents		
Acetone	A	U
Acetaldehyde	G	A
Aniline	E	E
Benzol	A	U
Petrol	U	U
Butyl alcohol	E	E
Dimethyl salfoxide (DMSO)	E	E
Ethyl acetate	G	U
Ethyl alcohol	E	E
Ethyl dichloride	A	U
Ethyl ether	U	U
Phenol	G	G
Formalin 37%	E	G
Heptanes	A	U
Chlorobenzene	A	U
Chloroform	U	U
Carbon disulphide	U	U
Carbon tetrachloride	U	U
Kerosene	G	A
Methyl alcohol	E	E
Methylene (di)chloride	U	U
Methyl ethyl ketone	A	U
Nitrobenzene	A	U
Toluene	A	U
Trichlorethylene	U	U

Rating:

- E Excellent (no attack)
- G Good (no significant attack)
- A Acceptable (light attack, limited use)
- U Unacceptable (significant attack)

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