

Resistance Table For Various Fibers

Texel[®]

	Acid Resistance (pH < 7)	Alkali or Base Resistance (pH > 7)	Hydrocarbon Resistance	Solvent Resistance	UV Resistance	Mold Resistance	Heat Resistance
Polypropylene	Excellent resistance to most acids, except for significant deterioration when exposed to high temperatures in the presence of acids	<ul style="list-style-type: none"> Excellent resistance to most alkalis Considered stable when the pH is between 2 and 13 	Excellent resistance to hydrocarbons, except for significant deterioration when exposed to high temperatures in presence of hydrocarbons	Low resistance to solvents, especially in temperatures > 60°C (140°F)	Loss of strength when exposed to UV for extended periods	Good resistance to mold	<ul style="list-style-type: none"> Softens at 115-140°C (235-285°F) Melts at 150°C (300°F) Non-flammable
Polyester	Good resistance to mineral acids	<ul style="list-style-type: none"> Good resistance to weak alkalis Disintegrates in presence of strong alkalis and high temperatures Very sensitive to sodium hydroxide, for example 	Good resistance to hydrocarbons	Insoluble in most solvents except for certain phenols, which can cause swelling	Good UV resistance	Excellent resistance to mold	<ul style="list-style-type: none"> Becomes sticky at 225-235°C (440-450°F) Melts at 250-255°C (480-495°F) Non-flammable
Viscose / Rayon	Disintegrates in hot or cold concentrated acids	Loses strength and swells in presence of strong alkalis	-	Good resistance to solvents	Yellows when exposed to UV	Easily damaged by mold, significant loss of strength	<ul style="list-style-type: none"> Does not melt or soften Decomposes at temperatures above 175°C (350°F) Easily flammable

WANT TO LEARN MORE?

Feel free to contact one of our representatives to discuss your project. 1 800 463-8929 | texel.ca | info.geosynthetiques@alkegen.com

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Acids / Alkalies (or Bases)

Texel®

Examples of Solutions and their Respective pH

The pH of Typical Aqueous Solutions

Substance	Approximate pH
Acid mine drainage (AMD)	< 1,0
Battery acid	< 1,0
Gastric acid	2,0
Lemon juice	2,4 - 2,6
Cola	2,5
Vinegar	2,5 - 2,9
Orange or apple juice	3,5
Beer	4,5
Coffee	5,0
Tea	5,5
Acid rain	< 5,6
Milk	6,5
Pure water	7,0
Human saliva	6,5 - 7,4
Blood	7,38 - 7,42
Sea water	8,0
Soaps	9,0 à 10,0
Lime	12,5

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Identified by the pH Level of the Environment

pH < 7	Acidic environment : the acidity of the environment increases as the pH falls below 7
pH = 7	Neutral environment
pH > 7	Alkaline environment (basic) : the environment becomes increasingly alkaline as the pH increases beyond 7

Examples

Examples of mineral acids :

- Hydrochloric acid
- Phosphoric acid
- Nitric acid
- Sulphuric acid

Examples of organic acids :

- Acetic acid
- Benzoic acid
- Salicylic acid
- Lactic acid

Examples of alkalies (bases) :

- Calcium carbonate
- Sodium carbonate
- Sodium hydroxide
- Potassium hydroxide
- Ammonium hydroxide

Examples of solvents :

- Acetone
- Ethyl alcohol
- Benzene
- Ethylene glycol
- Chloroform
- Toluene
- Xylene

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