

Synthetic Fiber Properties

	Unit	Polyester	Polyamide 6.6	Polypropylene
Specific gravity	Kp/dm ³	1.38	1.14	0.91
Moisture absorption at 20°C - 65% R.H.	%	0.3 - 0.4	3.8 - 4.2	0
Softening point	°C	220 - 240	170 - 235	140 - 165
Melting point	°C	250 - 260	210 - 250	165 - 175
Tenacity	g/den	4 - 5	4 - 6	4.5 - 7
Breaking point in dry conditions	%	15 - 30	20 - 40	20 - 50
Breaking point in humid conditions	%	15 - 30	25 - 45	20 - 50
Light and weather resistance		Good	Poor, less resistance after prolonged exposure	Poor, less resistance after prolonged exposure
Abrasion resistance		Very good	Very good	Fairly good
Acid resistance		Fairly good	Sensitive to concentrated acid at high temperature	Excellent
Alkali resistance		Sensitive to alkalis	Good	Excellent
Reaction to organic solvents i.e. those used for dry cleaning		Not generally affected, melts in hot solutions	Not generally affected, melts in hot solutions	Good

All information is derived from published data of the fiber manufacturers and, generally, reflect the resistance at 20 °C (68 °F) and of concentrated or saturated solutions. Rating, sample preparation, exposure time, load and other relevant factors vary between materials. Consequently, this information should be used as a guide only. Prior to any industrial application, users are strongly advised to determine the accuracy, safety and suitability of this information by laboratory and field tests.

Saati S.p.A. assumes no liability for accidents and/or damages that may result from the use of the information contained in this chart.

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