

Useful Fibre Data

Fibre	Strength CN/d tex*	Extension at break %	Moisture uptake %	Moisture regain %	Chemical solubility	Burning
Wool/Hairs	1.5	40	33	13-19	Dissolves 5% Caustic Soda	Self extinguishing cinder
Silk	3-4	23	33	11	Dissolves conc HCR	Self extinguishing cinder
Cotton	3.5	7	27	8.5	Dissolves 75% Sulphuric Acid	Burns rapidly, no ash
Bast	5-7	2	25	12	Dissolves 75% Sulphuric Acid	Burns rapidly, no ash
Viscose	1-1.5	15-20	35	11-13	Dissolves Cuprammonium Hydroxide	Burns rapidly no ash
Acetate	1.5	24	16	6-9	Dissolves Acetone	Melts 255° [bead]
Nylon	4.5-13	26	6.5	6.5	Dissolves 90% Phenol	Melts 265° [bead]
Polyester	4.5-11	25	0.4	1.5	Dissolves 90% hot Phenol	Melts 285° [bead]
Acrylic	2.5	20	2.5	1.5	Dissolves di-methyl formamide at 60°C	Burns rapidly [dangerous]
Polypropylene	3.5-4	20	0.25	0.25	Dissolves hot xylene	Melts 165° [bead]

*d tex is a measure of linear density. d tex=mass in grams of 10,000 metres.
Denier = mass in grams of 9,000 metres.