

SYNTHETIC FIBER PROPERTIES

Fibers	Polyamide Nylon 66	Polypropylene	Polyester	Acrylic Homopolymer	meta-Aramid Nomex	Polyphenylene Sulfide (PPS)	Polyimide P84
Recommended Continuous Operation Temperature (Dry Heat)	200° F	200° F	270° F	266° F	400° F	375° F	500° F
	94° C	94° C	132° C	130° C	204° C	190° C	260° C
Maximun (Short Time) Operation Temperature (Dry Heat)	250° F	225° F	300° F	302° F	465° F	450° F	580° F
	121° C	107° C	150° C	150° C	240° C	232° C	300° C
Water Vapor Saturated Condition (Moist Heat)	200° F	200° F	200° F	266° F	350° F	375° F	383° F
	94° C	94° C	94° C	130° C	177° C	190° C	185° C
Specific Density	1.14	0.9	1.38	1.17	1.38	1.38	1.41
Relative Moisture Regain in % (at 68 °F & 65% R.M.)	4 - 4.5	0.1	0.4	1.0	4.5	0.6	3.0
Supports Combustion	Yes	Yes	Yes	Yes	No	No	No
Biological Resistance	No Effect	Very Good	No Effect	Very Good	No Effect	No Effect	No Effect
Resistance to Strong Alkalis	Good	Very Good	Poor	Good	Good	Fair	Fair
Resistance to Weak Alkalis	Good	Very Good	Fair	Good	Good	Fair	Good
Resistance to Strong Acids	Poor	Very Good	Good	Good	Fair	Good	Good
Resistance to Weak Acids	Poor	Very Good	Good	Good	Good	Good	Good
Resistance to Oxidizing Agents	Fair	Good	Very Good	Good	Good	Poor	Fair
Resistance to Solvents	Very Good	Very Good	Good	Good	Good	Good	Good
Resistance to Hydrolysis	N/A	Very Good	Poor	Good	Fair	Very Good	Good