

Table 1. Thermal properties of different Fibres

Fibre	Softening Temperature $T_g^{\circ}\text{C}$	Melting Temperature $T_m^{\circ}\text{C}$	Pyrolysis Temperature $T_p^{\circ}\text{C}$	Ignition Temperature $T_i^{\circ}\text{C}$	LOI %
Cotton	-	-	350	350	18.4
Polyester	80-90	255	424-447	480	20-21
Nylon 6,6	50	265	403	530	20-21.5
Mod acrylic	<80	>240	273	690	29-30
Mata-aramids (Nomex)	275	375-430	425	>500	29-30
Para-aramids (Kevlar)	340	560(decompose)	>590	>500	29