

# CAUTION! ARAMID FIBERS

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## KEVLAR: A MIRACLE IN SEARCH OF A MARKET

- Fortune Magazine

	Nylon	Polyester	Aramid
<b>Break Tenacity</b>	7-10.5g/d	7-10g/d	18-26g/d
<b>Elongation @ break</b>	15-28%	12-18%	1.5-3.6%
<b>Working Temperature</b>	250F	275F	350F
<b>Specific Gravity</b>	1.14	1.38	1.44

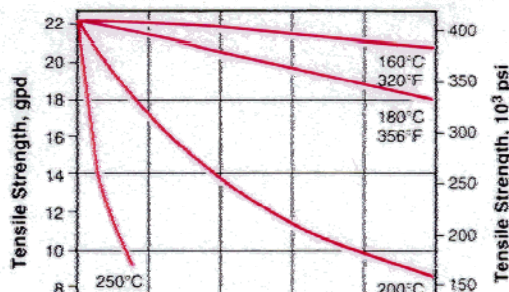
Source: Cordage Institute Fiber Chart

## CHARACTERISTICS FOR CONCERN

### HEAT EFFECTS

Working limits are much lower than decomposition limits.

<u>FIBER</u>	<u>DECOMPOSITION</u>	<u>WORKING LIMIT</u>
Aramid	800-900° F	350° F
Nylon	493° F	250° F
Polyester	275° F	150° F



Source: DuPont Fibers Technical Manual