

TECHNICAL DATA SHEET

PCA Fibre

Linear Density:	2.5/3.5 den (2,8/3,8dtex)
Limiting Oxygen Index (LOI):	43% [ISO 4589-2]
Tenacity:	18.0 cN/tex (2.1g/den)
Elongation:	29%
Shrinkage in boiling water:	0%
Alkaline Resistance:	Very Good
Acid Resistance:	Very Good
UV Resistance:	Very Good
Solvent Resistance:	Very Good
Hydrolysis Resistance:	Very Good
Melting point:	Does Not Melt
Afterglow:	None
NBS Smoke density (opacity of smoke):	0 after 4min (does not smoke) [ASTM E662-97]
Moisture Regain:	12%
Water Imbibitions:	45%
Oeko Tex Standard 100:	Class 2 (direct skin contact)
Density:	1.5g/cm ³
Continuous Heat Resistance:	250°C (480°F)
Thermal conductivity (k value): <small>(ability to conduct heat)</small>	0.030 W/mK [ISO8301] <small>(the lower the better the thermal protection)</small>
Thermal Resistance (R value m ² K/W): <small>(ability to resist the flow of heat)</small>	Material Thickness [m]/0.030 W/mK <small>(the higher the better the heat resistance)</small>
Staple lengths:	10-120mm (0.8-4.5in)
Dyeable:	Yes
Antimony and Halogen free:	Yes