

TECHNICAL DATA SHEET

PCA Fibre

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|---|---|
| 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 |
| Anti-bacterial: | Excellent |
| Anti-fungal: | Excellent |
| Anit-viral: | Excellent |
| 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 |