

# asota® THERMO

**General Points:**

asota® THERMO fine denier fibers are melt-spun staple fibers. In comparison to standard PP fibers the thermal stability and the oxidation resistance is considerably enhanced by the use of a special system for stabilization.

**Colours:**

asota® THERMO fine denier fibers are available in white and black (Thermo 1) and also in 1039 thermoblau (Thermo 2).

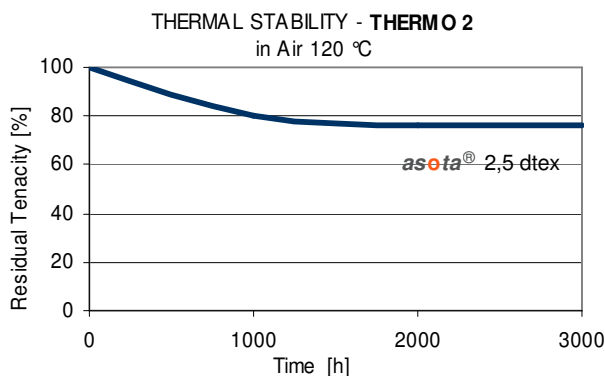
**Oxidation-Resistance Thermal-Resistance:**

**THERMO 1:**

After 168 hours @ 120 °C / 248 °F in air:  
 residual strength: >90 %  
 residual elongation: >35 %  
 (in relation to the initial value)

**THERMO 2:**

After 3.000 hours @ 120 °C / 248 °F in air:  
 residual strength: > 70 %  
 (in relation to the initial value)



**Form of supply:**

asota® THERMO fine denier fibres are supplied as staple fibre, packed in bales.

Bale dims.: approx. 115 x 105 x 67 cm  
 (45 x 41 x 26 inch)

Bale weight: approx. 220 kg  
 (485 lb)

On request even available as tow or top.

**Manufacturing Processes:**

- woollen, • semi worsted,
- worsted and cotton system spinning (rings),
- needle punching and melt bonding

**Fibre characteristics:**

Fibre cross section	
Fibre diameter	µm / micron
Cut length	mm (inch)
Tenacity	cN / tex (gpd)
Elongation at break	%
Melting point	°C (°F)
Specific density	g / cm <sup>3</sup> (oz/in <sup>3</sup> )

	2.2 dtex (2.5 den)	2.8 dtex (2.5 den)
Fibre cross section	round	round
Fibre diameter	18	20
Cut length	50 (2,0)	60 (2,6)
Tenacity	40 – 50 (4,5 – 5,6)	30 – 35 (3,4 – 3,9)
Elongation at break	25 – 35	40 – 80
Melting point	ca. 170 (338)	ca. 170 (338)
Specific density	0,90 (0,61)	0,90 (0,61)

Other deniers and cut lengths on request.

... further information on request!