

Material Specification

TCS



MATERIAL: TCS polyester material is made of TREVIRA CS fibres and woven by the weaving mill of Euro Air. The TCS materials are woven in a twill weave that combined with the heavy and twisted staple fibres ensure the largest possible fabric surface and by that longer washing intervals.

CONSTRUCTION: Heatset, shrinkage- and permeability-stabilized material.

Type		TCS 50	TCS 150	TCS 325	TCS 550	TCS 775	TCS 1240	Standard
Weight (%) -/+5	g/m ²	400	330	300	290	280	340	EN-ISO 5077
Thickness (%) -/+10	mm	0.7	0.6	0.6	0.65	0.6	0.6	EN-ISO 12127:1997
Permeability	m ³ /m ² /h 120 Pa Tolerance (%)	50	150	325	550	775	1240	EN-ISO 9237:1995
		-25/+8	-12/+16	-6/+15	-6/+15	-8/+14	-11/+14	
Tensile strength (%) -/+10	Warp / Weft N/50mm	2600 / 2100	2800 / 1100	2800 / 1100	2800 / 920	2900 / 800	2700 / 1300	EN-ISO 13934-1
Resistance to tearing (%) -/+10	Warp / Weft N	98 / 103	112 / 69	167 / 91	178 / 137	166 / 164	144 / 138	EN-ISO 13937:2
*Dust retention Filter class		M6	M6	M6	M6	M6	M6	EN-ISO 779
**Shrinkage in wash	(%) 40°C	0.5	0.5	0.5	0.5	0.5	0.5	EN-ISO 5077
Melting point	°C	254	254	254	254	254	254	
Operating temperature	°C	80/-45	80/-45	80/-45	80/-45	80/-45	80/-45	
Spontaneous ignition temp.	°C	508	508	508	508	508	508	
Water absorption	[%] at 90% RH	0.4	0.4	0.4	0.4	0.4	0.4	
Electrostatic Resistance	Ohm/cm	2 x 10 ¹⁰	2 x 10 ¹⁰	2 x 10 ¹⁰	2 x 10 ¹⁰	2 x 10 ¹⁰	2 x 10 ¹⁰	DIN 54345
Clean room classification		N/A	N/A	N/A	N/A	N/A	N/A	ISO-14644-1
Fire resistance		B-S1-d0	B-S1-d0	B-S1-d0	B-S1-d0	B-S1-d0	B-S1-d0	EN-13501 AC 167 NFPA 90 A
		Yes	Yes	Yes	Yes	Yes	Yes	
Oeko-Tex®		Approved	Approved	Approved	Approved	Approved	Approved	Standard 100

Cradle to Cradle™ TCS material is Cradle to Cradle certified

*EA measurement **Washed and dried according to Euro Air instructions

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