

MATERIAL SPECIFICATION



TCS

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.

Heatset, shrinkage and permeability stabilised material.



Type		TCS 50	TCS 150	TCS 325	TCS 550	TCS 775	TCS 1240	Standard
Weight (%) -/+5	g/m ²	400	330	300	290	325	340	EN-ISO 5077
Thickness (%) -/+10	mm	0.7	0.6	0.6	0.65	0.7	0.6	EN-ISO 12127:1997
Permeability	m ³ /m ² /h 120 Pa	50	150	325	550	775	1240	EN-ISO 9237:1995
	Tolerance (%)	-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 / 1300	2700 / 1300	EN-ISO 13934-1
Resistance to tearing (%) -/+10	Warp / Weft N	98 / 103	112 / 69	167 / 91	178 / 137	225 / 227	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	≤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 54345-1
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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