

Material Specification

MultiWeave



MATERIAL:

Multi-purpose polyester material woven at KE Fibertec weaving mill. The MultiWeave materials are woven in a plain weave that combined with the heavy-duty “High Tenacity fibres” creates a strong, even and wear-resistant textile surface. The MultiWeave material has been approved for clean room applications, ISO class 4 acc. to ISO 14644-1.

CONSTRUCTION:

Heatset, shrinkage- and permeability-stabilised material.

Type KE-Datasheet		MW20 40	MW40 41	MW80 43	MW320 44	MW600 45	Standard
Weight (%) -/+5	g/m²	280	277	270	230	230	EN-ISO 5077
Thickness (%) -/+10	mm	0.5	0.5	0.4	0.4	0.4	EN-ISO 12127:1997
Permeability	m³/m²/h 120 Pa	20	40	80	320	600	EN-ISO 9237:1995
	Tolerance (%)	-25/+25	-30/+8	-12,5/+12,5	-6/+15	-6/+15	
Tensile strength (%) -/+10	Warp / Weft N	2350 / 1500	2250 / 1450	2400 / 1700	2300 / 1400	2400 / 1250	EN-ISO 13934-1
Resistance to tearing (%) -/+10	Warp / Weft N	150 / 130	150 / 130	150 / 110	200 / 160	210 / 180	EN-ISO 13937:2
*Filter class		G2	G2	G2	G2	G2	EN 779:2012
*Dust holding capacity	(250/350/450 Pa) g	2/3/3	2/3/3	2/3/3	2/3/3	2/3/3	EN 779:2012
**Shrinkage in wash	(%) 40°C	0.5	0.5	0.5	0.5	0.5	EN-ISO 5077
Operating temperature	°C	80/-45	80/-45	80/-45	80/-45	80/-45	
Spontaneous ignition temp.	°C	508	508	508	508	508	
Water absorption	[%] at 90% RH	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	DIN 54345-1
Clean room classification		Class 4	Class 4	Class 4	Class 4	Class 4	ISO-14644-1
Fire resistance		B-S1-d0 Yes	B-S1-d0 Yes	B-S1-d0 Yes	B-S1-d0 Yes	B-S1-d0 Yes	EN-13501 UL 723/NFPA 90 A
Oeko-Tex®		Approved	Approved	Approved	Approved	Approved	Standard 100

Cradle to Cradle®

The MultiWeave material is Cradle to Cradle certified

*KE measurement **Washed and dried according to KE Fibertec instructions

