

Material Specification

MultiWeave



KE FIBERTEC

AIR THE WAY YOU WANT

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

CONSTRUCTION: Heat-set, shrinkage- and porosity-stabilized material.

Type KE-Datasheet		MW1 40	MW2 41	MW4 43	MW18 44	MW33 45	
Weight (%) -/+5	oz/yd²	8.3	8.2	8.0	6.8	6.8	EN-ISO 5077
Thickness (%) -/+10	mil	20	20	16	16	17	EN-ISO 12127:1997
Porosity at 0.5 inWG	CFM/ft² Tolerance %	1 -25/+25	2 -30/+8	4 -20/+25	18 -6/+15	33 -6/+15	EN-ISO 9237:1995
Tensile strength (%) -/+10	Warp / Weft lb_f	528 / 337	506 / 326	540 / 382	517 / 315	540 / 281	EN-ISO 13934-1
Resistance to tearing (%) -/+10	Warp / Weft lb_f	34 / 29	34 / 29	34 / 25	45 / 36	47 / 40	EN-ISO 13937:2
*Filter class		G2	G2	G2	G2	G2	EN 779:2012
**Shrinkage in wash	%	<0.5	<0.5	<0.5	<0.5	<0.5	EN-ISO 5077
Operating temperature	°F	+140/-49	+140/-49	+140/-49	+140/-49	+140/-49	
Spontaneous ignition temp.	°F	946	946	946	946	946	
Water absorption in standard climate	%	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
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					Standard 100
Cradle to Cradle®		The MultiWeave material is Cradle to Cradle certified					

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

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