

# 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
<b>Weight (%) -/+5</b>	<b>g/m<sup>2</sup></b>	280	277	270	230	230	EN-ISO 5077
<b>Thickness (%) -/+10</b>	<b>mm</b>	0.5	0.5	0.4	0.4	0.4	EN-ISO 12127:1997
<b>Permeability</b>	<b>m<sup>3</sup>/m<sup>2</sup>/h 120 Pa Tolerance (%)</b>	20 -25/+25	40 -30/+8	80 -12,5/+12,5	320 -6/+15	600 -6/+15	EN-ISO 9237:1995
<b>Tensile strength (%) -/+10</b>	<b>Warp / Weft N</b>	2350 / 1500	2250 / 1450	2400 / 1700	2300 / 1400	2400 / 1250	EN-ISO 13934-1
<b>Resistance to tearing (%) -/+10</b>	<b>Warp / Weft N</b>	150 / 130	150 / 130	150 / 110	200 / 160	210 / 180	EN-ISO 13937:2
<b>*Filter class</b>		G2	G2	G2	G2	G2	EN 779:2012
<b>*Dust holding capacity</b>	<b>(250/350/450 Pa) g</b>	2/3/3	2/3/3	2/3/3	2/3/3	2/3/3	EN 779:2012
<b>**Shrinkage in wash</b>	<b>(%) 40°C</b>	0.5	0.5	0.5	0.5	0.5	EN-ISO 5077
<b>Operating temperature</b>	<b>°C</b>	80/-45	80/-45	80/-45	80/-45	80/-45	
<b>Spontaneous ignition temp.</b>	<b>°C</b>	508	508	508	508	508	
<b>Water absorption</b>	<b>[%] at 90% RH</b>	0.4	0.4	0.4	0.4	0.4	
<b>Electrostatic resistance</b>	<b>Ohm</b>	≤2 x 10 <sup>10</sup>	≤2 x 10 <sup>10</sup>	≤2 x 10 <sup>10</sup>	≤2 x 10 <sup>10</sup>	≤2 x 10 <sup>10</sup>	DIN 54345-1
<b>Clean room classification</b>		Class 4	Class 4	Class 4	Class 4	Class 4	ISO-14644-1
<b>Fire resistance</b>		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
<b>Oeko-Tex®</b>		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

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