

Material Specification

MultiWeave



KE FIBERTEC

AIR THE WAY YOU WANT

MATERIAL: Multi-purpose polyester material woven at KE Fibertec textile 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-stabilized material.

| Type KE-Datasheet | | MW20 40 | MW40 41 | MW80 43 | MW320 44 | MW600 45 | Standard |
|---------------------------------------|---|----------------------|----------------------|----------------------|----------------------|----------------------|------------------------------|
| Weight (%) -/+5 | g/m ² | 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 | m ³ /m ² /h 120 Pa Tolerance (%) | 20 -25/+25 | 40 -25/+25 | 80 -12,5/+12,5 | 320 -6/+15 | 600 -6/+15 | EN-ISO 9237:1995 |
| Tensile strength (%) -/+10 | Warp / Weft N/50mm | >3100 / >1800 | >1700 / >3200 | >1700 / >2800 | >2800 / >1300 | >2200 / > 910 | EN-ISO 13934-1 |
| Resistance to tearing (%) -/+10 | Warp/ Weft N | 150 / 130 | 130 / 150 | 110 / 150 | 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/cm | 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® | | N/A | N/A | N/A | N/A | N/A | |

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

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