

ORATEX FABRIC SPECIFICATION SUMMARY

ORATEX aircraft fabric is available in two grades.

Oratex600 (MTOW max 600 kg)

Material: Modified polyester with colour coating

Material thickness: Approx. 120 μm

Weight: Approx. 92 – 122 g/m^2 depending on colour

Tensile strength lengthwise: 750 – 1050 N/50 mm

Tensile strength crosswise: 650 – 950 N/50 mm

Breaking extension lengthwise: 10 – 18%

Breaking extension crosswise: 11 – 20%

Tear propagation load lengthwise: 18 – 24 N

Tear propagation load crosswise: 16 – 22 N

Burst strength: 500 – 700 kPa

Burst elevation: Approx. 14 – 18 mm

Shrinkage lengthwise: 8 – 12% (reference temperature 170°C)

Shrinkage crosswise: 8 – 12% (reference temperature 170°C)

Flammability: Not flammable after application to airframe

Melting point: 250°C

Air permeability: Airtight

Other characteristics: Fuel resistant, can be painted

Oratex6000 (MTOW max 6000 kg)

Material: Modified polyester

Material thickness: Approx. 170 μm

Weight: Approx. 140 to 160 g/m^2 depending on colour

Tensile strength lengthwise: Min. 1300 – 1600 N/50 mm

Tensile strength crosswise: Min. 1100 – 1400 N/50 mm

Breaking extension lengthwise: 12 – 20%

Breaking extension crosswise: 12 – 20%

Tear propagation load lengthwise: 26 – 32 N

Tear propagation load crosswise: 28 – 34 N

Burst strength: > 1000 kPa

Burst elevation: > 15 mm

Shrinkage lengthwise: 9 – 13%

Shrinkage crosswise: 8 – 12%

Flammability: Not flammable after application to airframe

Melting point: 250°C

Air permeability: Airtight

Other characteristics: Fuel resistant, can be painted
