

General information

The synthetic blankets are made of virgin fibres such as polyester or acrylic. Some cotton may be included in the yarns.

The insulation capacity of a blanket depends of the TOG (Thermal resistance Of Garments) and of the air permeability of the material. The TOG does not depend only on the weight or the raw material, but also on the fibre quality, the type of weaving or knitting, and fibre raising.

- Medium thermal type, with a TOG of 2.5, is the minimum for hot or temperate climates (even in hot countries, nights can be cold).
- High thermal type, with a TOG of 4, is appropriate for cold climates.
- A blanket with TOG 1.5 is appropriate for indoor use, on a bed, in a house with heating facilities. Outdoors in most climates, or even indoors without a heater, a blanket with a TOG 2.5 is the minimum.

Scientific studies defined that indoors at 20°C, a person at rest requires a total insulation of TOG 1.5. Outdoors with no wind the value at 10°C is TOG 4, at 0°C it is TOG 6, at -10°C it is TOG 8 and at -20°C it is TOG 9.5. Bearing in mind that a part of the insulation comes from the clothing, the rest will come from the blanket.

- The TOG can only be tested in a textile laboratory.
- Low air permeability ensures protection from draughts, while inherent breatheability allows evacuation of body perspiration.

Other colours than the standard are available at higher costs and longer lead-time.

Blankets are subject to International Purchase Frame Agreements with validated manufacturers. Please refer to your HQ before purchasing.

Specifications

HSHEBLANPMT1	BLANKET, SYNTHETIC, 1.5x2m, medium thermal
Test conditions	Specification under the normal textile test conditioning ISO139, 65% moisture and 20°C for 24h.
Samples for testing purpose	Samples of blankets must be from compressed bales. All criteria to be passed on the same sample. (Samples of compressed bales to be prepared with only 5 blankets folded once more than in normal bales, at 40% compression ratio, and to remain compressed for one week minimum before testing).
Make	Knitted or woven, dry raised both sides
Content ISO 1833 on dry weight	100% virgin polyester and/or acrylic fibres or polyester/cotton
Colours	Other than black, red, or white, dark uniform colour.
Size	150 x 200cm +3%/-1%. To be taken on flat stabilised sample, without folds.
Weight	350 to 670g/m ² Weight determined by total weight/total surface.
Thickness ISO 5084	3mm minimum (1KPa on 2000mm ²)
Tensile strength ISO13934-1	250N warp and weft minimum
Tensile strength loss after washing ISO13934-1 and ISO 6330	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.
Shrinkage maxi. ISO 6330	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.
Weight loss after washing	Maximum 5% after 3 consecutive machine washing at 30°C and one flat drying.
Thermal resistance ISO 5085-1	TOG 2.5 (or 0.25m ² .K/W) minimum, rounded to the nearest 0.1, passed on samples picked from compressed bales after 3 consecutive machine washing at 30°C and one flat drying.
Resistance to air flow ISO9237 under 100Pa pressure drop	Maximum 1000 L/m ² /s
Finish	Whipped seam at 10mm from the edge with 10 to 13 stitches/10cm or stitched ribbon or hemmed on 4 sides.
Organoleptic test	No bad smell, not irritating to the skin, no dust. 4<pH<9. Free from harmful VOC (Volatile Organic Components). Fit for human use.
Fire resistance ISO12952-1&2	Resistance to cigarette - No ignition
Fire resistance ISO12952-3&4	Resistance to flame - No ignition
Packing	- Bales to be wrapped in a water-tight micro perforated plastic film and covered with a polypropylene or jute woven bag. - Quantity per bale: 20 pieces. - Compressed and strapped with 5 straps (2 lengthwise, 3 crosswise). - Bales dimensions: Length approx. 0.8m, width approx. 0.5m - Height of the bales to be compressed by maximum 40% from free state to final compressed and strapped state.

	(ex: if the bale is 1m high at free state, it should be compressed to a height of 0.6m at final and strapped state).
Marking on the package	BLANKET, SYNTHETIC, 1.5x2m, medium thermal – 20 pieces. Other markings as specified in contract.

Specifications

HSHEBLANPHT1	BLANKET, SYNTHETIC, 1.5x2m, high thermal
Test conditions	Specification under the normal textile test conditioning ISO139, 65% moisture and 20°C for 24h.
Samples for testing purpose	Samples of blankets must be from compressed bales. All criteria to be passed on the same sample. (Samples of compressed bales to be prepared with only 5 blankets folded once more than in normal bales, at 40% compression ratio, and to remain compressed for one week minimum before testing).
Make	Knitted or woven, dry raised both sides
Content ISO 1833 on dry weight	100% pure polyester and/or acrylic fibres or polyester/cotton
Colours	Other than black, red, or white, dark uniform colour.
Size	150 x 200cm +3%/-1%. To be taken on flat stabilised sample, without folds.
Weight	500 to 850g/m ² Weight determined by total weight/total surface.
Thickness ISO 5084	5mm minimum (1KPa on 2000mm ²)
Tensile strength ISO13934-1	250N warp and weft minimum
Tensile strength loss after washing ISO13934-1 and ISO 6330	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.C
Shrinkage maxi. ISO 6330	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.
Weight loss after washing	Maximum 5% after 3 consecutive machine washing at 30°C and one flat drying.
Thermal resistance ISO 5085-1	TOG 4 (or 0.4m ² .K/W) minimum, rounded to the nearest 0.1, passed on samples picked from compressed bales after 3 consecutive machine washing at 30°C and one flat drying.
Resistance to air flow ISO9237 under 100Pa pressure drop	Maximum 1000 L/m ² /s
Finish	Whipped seam at 10mm from the edge with 10 to 13 stitches/10cm or stitched ribbon or hemmed on 4 sides.
Organoleptic test	No bad smell, not irritating to the skin, no dust. 4<pH<9. Free from harmful VOC (Volatile Organic Components). Fit for human use.
Fire resistance ISO12952-1&2	Resistance to cigarette - No ignition
Fire resistance ISO12952-3&4	Resistance to flame - No ignition
Packing	- Bales to be wrapped in a water-tight micro perforated plastic film and covered with a polypropylene or jute woven bag. - Quantity per bale: 20 pieces. - Compressed and strapped with 5 straps (2 lengthwise, 3 crosswise). - Bales dimensions: Length approx. 0.8m, width approx. 0.5m - Height of the bales to be compressed by maximum 40% from free state to final compressed and strapped state.

	(ex: if the bale is 1m high at free state, it should be compressed to a height of 0.6m at final and strapped state).
Marking on the package	BLANKET, SYNTHETIC, 1.5x2m, high thermal – 20 pieces. Other markings as specified in contract.