

General information

Mattress for distribution

For hospital bed mattress, see item code XMEQBEDSH1M

Foam density is one of the factors determining the quality. Low grades range from 18 to 22kg/m³; medium grades from 22 to 27 kg/m³, while higher grades are above 27kg/m³.

The minimum foam density for a bed mattress is 22kg/m³.

Unit conversion: pound per cubic foot to kilogram per cubic meter: 11b/cuft = 16kg/m³

The standard quality of foam is open cell foam. Higher quality mattresses are made from closed cell foam.

The factor determining the firmness of the mattress is the Indentation Load Deflection (ILD). The higher the number, the firmer the mattress. This factor varies from 5 to 100 kg. The ILD value for a specific type of foam is also correlated to the thickness: the thicker the mattress, the higher the ILD value.

Sag factor gives an indication of cushioning quality. A high value indicates a resistance to “bottoming out”.

Air flow measures the capacity of the foam to evacuate moisture.

Impact Resilience is a measure of elasticity, bounce, or springiness of the foam.

Some specifications may vary with national standards and local market conditions. For locally sourced items, check the relevant national standards or specifications. Any important variation from the below standard specifications needs to be approved by your technical department.

Specifications

Mattress	
General quality of mattress foam	Neat and clean, well finished appearance, homogenous quality, free of any visible imperfections and/or defects No damage like cracks or holes No material agglomeration on the surface, no blemishes
Foam material	High density polyurethane foam, in one piece, no glue assembled pieces
Density	Medium grade: 25-28kg/m ³ +/- 5% High grade: 35kg/m ³ +/- 5%
Length	1780 - 1840 mm
Width	690 - 720 mm
Thickness	Medium grade: 68 - 74 mm High grade: 15 cm
Weight	Will depend on dimensions, density and thickness Not less than 2469 gr +/-5% Shortage in weight shall not exceed 1% for the total quantity received
Indentation Load Deflection	16kg minimum
Sag factor	Greater than 2.0
Air flow	Maximum 0.11 CBM/min
Elongation	125 to 175%
Impact Resilience	Greater than 30%
Compression	Compression set, 90%, 22 hrs., 70° C, less than 10%
Colour of foam	Homogenous grey

Cover

General quality of cover	Shall cause no irritation to the skin Free from any defects that affect mattress performance, like holes, tears,... Good finishing, straight edges, neat cut and good quality sewing
Cover material	Non-woven spunbonded 100% polyester, with zipper, removable and washable Tear strength minimum: 6DaN under ISO 9073-4 or BS9073-4
Cover weight and density	320 gr \pm 5% (304 - 336 gr), 100 GSM \pm 5%
Colour of cover	Depending on Purchase Order requirements and availability / acceptance of colours (generally grey or black)
Sewing	Head side: external sewing on the width using normal sewing (minimum one line) Length side and width side: internal sewing using stitching minimum 3 lines Thickness: two layers of cloth (if no zipper is requested, the same sewing will replace the zipper location)
Zipper	Requirement depending on Purchase Order Strong, good quality plastic zipper Closed-end type Located on the width
Microbiology <ul style="list-style-type: none"> • Bacteria • Fungi/moulds • Yeasts 	<ul style="list-style-type: none"> • Nil in the foam or on the cover • Nil in the foam or on the cover • Nil in the foam or on the cover
Certificate of analysis	Certificate to be provided showing compliance with the specified technical requirements
Fit for human use	Certificate showing batch is fit for human use No recycled or skin harmful materials can be found to be included / used. No skin irritations shall occur

Packaging	
Packaging	Packaging shall be specified in the Purchase Order Individually packed in strong polyethylene transparent bag without holes or tears, thermally sealed, not compressed OR individually packed and compressed to minimum 75% rate (recovery after opening of bag: minimum 96% after 24hrs) OR rolled and compressed individually OR compressed bales of 4 to 10 units, not rolled
Marking on packaging	Item name/Trade mark, Manufacturer name, Product dimensions, Density, P.O number, Production date, Quantity per Bag, Country of origin, Net weight, Gross weight Or as "approved marking" specified in the related Purchase Order Marking shall be printed clearly, visibly and not be easily erasable