

L-Mesh™ Composite Mesh

A porous polymer film is laminated to the surface of a knitted mesh fabric to provide a smooth surface on one side and the texture of a mesh surface on the other.

ePTFE Film Side

LDPE Film Side

Mesh Side

Mesh Side

L-Mesh™ composite mesh is a laminate of knitted mesh and porous polymer film. Composite mesh fabrics are available with an expanded polytetrafluorethylene (PTFE) film surface or a porous low density polyethylene (LDPE) film. The result is a flexible and resilient sheet with a mesh surface on one side and a smooth porous film on the other side.

The mesh side has the classic characteristics of promoting good tissue ingrowth and adhesion, while the smooth film surface has been found to discourage tissue ingrowth and adhesion. The expanded PTFE film has pores in the size range of about 0.3 microns and thickness of 75 microns, and the perforated LDPE film has pores that are about 300 microns and thickness of 25 microns.

Standard grades of composite mesh are available for fast delivery. We can also produce custom configurations quickly using any grade of polypropylene and polyester mesh fabrics. The dimensions of the sheets are 35cm long by 30cm wide.

COMPOSITE MESH FABRICS CANNOT BE GAMMA IRRADIATED! USE ONLY AN APPROVED METHOD FOR STERILIZATION, SUCH AS ETHYLENE OXIDE (EtO) OR STEAM AUTOCLAVE.

COMPOSITE MESH FABRICS CONVERTED INTO FINISHED MEDICAL DEVICES MUST UNDERGO A FINAL CLEANING STEP THROUGH A CUSTOMER APPROVED PROCESS.

ISO-10993 Biocompatibility results for L-Mesh components are available to our customers upon request.

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Grade	Base Mesh Properties						Composite Features		
	Composition	Burst Strength kPa (PSI) (ASTM D-3786)	Break Strength N/2.5 cm (lb/in) (ASTM D-5034)		Break Elongation, % (ASTM D-5034)		Thickness mm (in) (ASTM D-1777)	Weight g/m ² (oz/yd ²) (ASTM D-3776)	Peel Strength N/7.6 cm (lb/3-in) (ASTM D-3936)
			MD	CMD	MD	CMD			
L604-2101.75	PPKM604 polypropylene mesh / ePTFE film	670 (97)	320 (72)	205 (46)	70	120	0.45 (.018)	95 (2.8)	5.3 (1.2)
L604-MH100CP	PPKM604 polypropylene mesh / LDPE film	670 (97)	320 (72)	205 (46)	70	120	0.36 (.014)	85 (2.5)	5.3 (1.2)
L14002-MH100CP	PETKM14002 polyester mesh / LDPE film	1000 (145)	485 (109)	510 (114)	100	95	0.47 (.018)	155 (4.5)	N/A

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