

Biogel® PI Micro

Synthetic
surgical glove



Industry leading AQL* of 0.40,
determined post packaging¹

Every glove (100%) is air-
inflation tested for holes
typically not detected in a
visual inspection²

Low endotoxin level (<20 EU/pair)
which may reduce the risk of post-
operative complications^{1,3}

MD (Medical Device) certified as
well as PPE (Personal Protective
Equipment) Category III, certified
to Type B chemical permeation
testing

Excellent barrier protection

Biogel® PI Micro is a straw-colored synthetic surgical glove. It is our thinnest polyisoprene glove, made 20% thinner than regular Biogel® PI gloves⁴ to provide excellent tactile sensitivity⁵, also when double-gloving. It has been tested and cleared for use with chemotherapy agents**.

Biogel quality

Biogel gloves are designed to be comfortable with maintained tactile sensitivity when double gloving^{5,6}. They are manufactured using rigorous quality checks, numerous washing cycles¹ and air-inflation testing of every single glove².

Recommended use

Recommended for all general surgeries, particularly for procedures where extra tactile sensitivity is needed or when latex allergies are a concern for patients or clinicians. It can be used alone or as an overglove with a Biogel® PI Micro Indicator® Underglove to create a Biogel® Puncture Indicator System.

* AQL = Acceptable Quality Level refers to the maximum number of defective products that could be considered acceptable during the random sampling of an inspection, in this case freedom from holes in gloves. The lower the number, the fewer the holes and the higher the glove quality.

** Please refer to separate permeation sheet for breakthrough times.

Material information

- Synthetic polyisoprene
- Curved finger and smooth surface
- Anti-slip, beaded cuff
- Powder-free

General information

Pyrogenicity: Each batch of Biogel gloves is tested to have a low endotoxin level (<20 EU/pair).

Registering authority: In Europe the gloves are CE-marked (notified body BSI, number 2797) indicating compliance with Medical Device Regulation 2017/745 and also in conformity with PPE Regulation (EU) 2016/425. In the UK the gloves are UKCA marked (authorized body BSI 0086) indicating compliance with the provisions of the Medical Device Regulation 2002 (SI618) as subsequently amended by the EU Exit Regulations of 2019 (SI 791) and 2020 (SI 1478) and with PPE Regulation (EU) 2016/425 as brought into UK Law and amended. These gloves have 510(k) clearance in the USA. They are a Class IIa product according to the Medical Device Regulation, Class III according to PPE Regulation, and Class I according to the FDA.

Storage: Store in a dry place at a temperature of 5-25°C, away from sources of heat or direct sunlight.

Packaging: One pair per pack, in a high quality inner wrap, packed into a film pack (constructed of a laminate of polyester and low-density polyethylene). 50 pairs per collation case for sizes 5.5 – 8.5; 40 pairs for size 9.0; 200 pairs per transit case for sizes 5.5 – 8.5; 160 pairs for size 9.0.

Disposal: Gloves and outer wrap may be disposed of as clinical waste. Paper inner wrap, collation case and transit case can be recycled as paper or disposed of as clinical waste.

Shelf life: Three (3) years from date of manufacture.

Manufacturer: Made and packed in Malaysia by Mölnlycke Health Care Sdn Bhd.

Country of origin: Malaysia

E-mail address: biogel@mölnlycke.com

Biogel® PI Micro REF 485 – Product specifications and order information

Product number	Size	Length, mm (Tolerance +20mm; -10mm)	Lay flat palm width, mm (±3mm)	Pairs
48555	5½	283	71	50/Box
48560	6	285	77	50/Box
48565	6½	285	85	50/Box
48570	7	288	91	50/Box
48575	7.5	298	96	50/Box
48580	8	299	103	50/Box
48585	8.5	301	109	50/Box
48590	9	301	115	40/Box

4 boxes per case

Typical thickness profile – single wall

Cuff	6.3 mils	0.16 mm
Palm	7.7 mils	0.20 mm
Finger	8.3 mils	0.21 mm

Biogel PI Micro are tested and manufactured to the following standards

Quality/Environment	ISO 13485, ISO 14001
Product	EN 455-1, EN 455-2, EN 455-3, EN 455-4, ASTM D3577, ISO 10282, EN ISO 374-1, EN ISO 374-2, EN ISO 374-4, EN 16523-1, EN ISO 374-5
Sterilization	ISO 11137, sterilized using irradiation, SAL 10 ⁻⁶
Viral penetration	Bacteriophage Test, ISO 16604, ASTM F1671
Allergenicity	ISO 10993 (Part 5 and 10)
Pyrogenicity	ASTM D7102
Labelling	EN 1041, EN 556-1, EN ISO 15223-1, EN ISO 21420
Packaging	EN ISO 11607

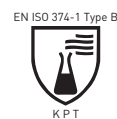
References: 1. Summary of Technical Documents, Mölnlycke Health Care. Data on file. 2. Internal SOP. Automatic Glove Inspection by QMAX, Mölnlycke Health Care. Data on File. 3. Asplund Peiro S et al. Quantitative determination of endotoxins on surgical gloves. Journal of Hospital Infection 1990; 16:167-172. 4. Biogel Thinner PI Overglove Final Design Verification. Mölnlycke Health Care. Data On File. 5. Biogel Thinner PI Overglove Customer Survey Analysis. 2017. Data on file. 6. Fry D E et al. Influence of double-gloving on manual dexterity and tactile sensation of surgeons. J Am Coll Surg. 2010; 210(3):325-30.

Physical glove properties	Standard requirement	Biogel PI Micro Typical value
Force at break (N)		
Initial	≥ 9	15
Aged	≥ 9	12
Tensile strength (MPa)		
Initial	≥ 17	29
Aged	≥ 12	23
Modulus Stress @500% elongation (MPa)		
Initial	7.0 max	1.8
Aged	n/a	1.7
Elongation at break (%)		
Initial	≥ 650	1110
Aged	≥ 490	1120
Typical accelerator analysis (% w/w)		
Dithiocarbamate (DTC)	n/a	<0.10
Diphenyl thiourea (DPTU)	n/a	<0.03
Diphenylguanidine (DPG)	n/a	<0.25
Zinc mercaptobenzothiazole (ZMBT)	n/a	<0.50
Thiurams	n/a	none
AQL freedom from holes (1000ml water leak test)		
ASTM D3577	1.5	0.40*
EN 455-1	0.65	
Process average (%) (Total water leak holes detected over total water leak test conducted for a year)	n/a	<0.20
Grip (Measure of the surface grip. Scale of 1-5, the higher the value, the greater the level of drag)	n/a	1.5

*post packaging



Tested for use with chemotherapy agents



EN ISO 374-1 Type B

K P T



EN ISO 374-5

VIRUS

Please refer to separate permeation sheet and instructions for use for breakthrough time for chemicals and chemotherapy agents.

Find out more at mölnlycke.us

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USMML1-0246 12.25

MHC-2025-000385

