

TECHNICAL DATA

Contaflex

Special Attributes

Employing a novel polymerisation technique together with using the highest purity monomers produces the Contaflex range of soft contact lens materials. This results in a range of soft lens materials with water contents from 58% to 75% that exhibit zero stress and excellent machinability.

The mid to high water content materials offer a greater Dk that leads to more comfortable wearing characteristics and excellent clarity of vision. Owing to the level of water content in the 75% materials this offers opportunities in bandage and other therapeutic lens applications.

Please Note: Regulatory requirements and standards vary from country to country, and are constantly evolving. As a global company we want to be sure we provide you with detailed technical information, specific to your market, where appropriate, rather than using the condensed and simplified technical information on the website. If you need to use technical data for quality paperwork, or for a regulatory submission, please contact your account manager to obtain this precise and detailed information to support your regulatory requirements, we will be happy to help.

Material Characteristics

PROPERTY	CONTAFLEX 58%	CONTAFLEX 67%	CONTAFLEX 75%
Classification	Filcon II 2	Filcon II 2	Filcon II 3
Ionic or Non-Ionic	Non-Ionic	Non-Ionic	Non-Ionic
Swell Factor at 20°C	1.37	1.49	1.61
Water Content at 20°C by refractometer	58 %	67 %	74.5 %
Refractive Index	1.5100 Dry 1.4050 Hydrated	1.5200 Dry 1.3900 Hydrated	1.5250 Dry 1.3750 Hydrated
Light transmission	>94 %	>95 %	>95 %
Oxygen Permeability (ISO) at 35° (barrers)	21	30	43
Density	1.18 g/cm ³ Dry 1.11 g/cm ³ Hydrated	1.18 g/cm ³ Dry 1.07 g/cm ³ Hydrated	1.19 g/cm ³ Dry 1.05 g/cm ³ Hydrated
Tensile Strength	0.48 MPa	0.36 MPa	0.17 MPa
Elongation To Break	150 %	130 %	170 %
Handling tints	Clear	Clear	Clear
UV Blocker	On request	On request	On request

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PROPERTY	CONTAFLEX 58%	CONTAFLEX 67%	CONTAFLEX 75%
Diameter	12.70 mm	12.70 mm	12.70 mm
Thickness	5.00 mm	5.00 mm	5.00 mm

Please note: Other materials may be available on request.

Please note: These are typical values. Always check the certificate of compliance supplied with the goods for the actual values of the batch.

Machining Recommendations

LATHE TYPE	RPM	BULK CUT	FINE CUT
Manual	6,000 - 9,000	0.30 - 0.50 mm	0.05 mm
CNC	6,500 - 9,000	0.30 - 0.50 mm	0.05 mm
Air Bearing	6,000 - 9,000	0.50 mm	0.05 mm

Diamond Tooling

TOOLING	RADIUS
Rough	0.30 - 0.50 mm
Fine	0.25 - 0.50 mm

Environment Control

For best manufacturing conditions Contamac recommends 19-23°C with a relative humidity of 45% - 60%

Polishing

The recommended polishing compound is Contapol 2 with a spindle speed of 3,500 rpm and weight of 240 gms. With the above machining recommendations polishing should require a maximum of 30 seconds.

Hydration

Hydration of these materials is best performed in buffered saline with a PH of 6.8 - 7.5.

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Manufacturing Consumables

High melt blocking wax
High melt blocking beeswax
Kemdent Blocking Wax
Water soluble wax
Contapol 1 polishing Compound
Contapol 2 polishing Compound
Cotton polishing cloth
Delrin polishing cup
Delrin polishing sponge
Roller sponges

Accessories

Tweezers
Hydratation baskets
Glass Vials
Stoppers
Aluminium top seals
Flip tear up seals
Shrink wrap sleeves
Double soft lens mailers
Net vial sleeves
DMV soft lens remover
Lens catch mat

Reference

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