

TECHNICAL DATA

CI26

Special Attributes

Nature: Copolymer of hydroxyethyl methacrylate and methyl methacrylate

The CI26 is firmly established as the leading hydrophilic material for the production of intraocular lenses. The material displays the perfect balance between machining characteristics, refractive index and foldability. The mechanical properties ensure the lens can be folded and injected easily while allowing for a smooth and controlled unfolding. A wide range of lens designs, utilising an incision size as low as 1.8 mm are based on this material. Our unique manufacturing technology ensures the material properties are consistent for repeatable and predictable results.

Contamac offers a yellow version of this material (CI26Y) in order to improve the blue light absorption which is believed to reduce the risk of age related macular degeneration.

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	CI26	CI26 YELLOW
Swell Factor at 20°C	1.13	1.13
Water Content at 20°C	26 %	26 %
Refractive Index at 20°C Hydrated	1.460	1.460
Refractive Index at 35°C Hydrated	1.458	1.458
Refractive Index	1.51	1.51
Density Hydrated	1.18 g/cm ³	1.18 g/cm ³
Tensile Strength	2.5 MPa	2.5 MPa
Elongation to Break	250 %	250 %
Modulus	3.0 MPa	3.0 MPa
UV Blocker	Standard	Standard
Diameter	12.70 & 16.00 mm	12.70 & 16.00 mm
Thickness	3.00 mm	3.00 mm

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

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Machining Recommendations

LATHE TYPE	RPM	BULK CUT	FINE CUT
Manual	7,000	0.50 mm	0.05 - 0.10 mm
CNC	7,000	0.50 mm	0.05 - 0.10 mm
Air Bearing	9,000	0.50 mm	0.05 - 0.10 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

Contamac's CI26 material can be polished using tumble polishing methods.

Hydration

Hydrate the finished IOL in borate buffered pH 7.2 isotonic saline or a similar buffered saline solution.

Reference

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Contamac Ltd

Carlton House, Shire Hill
Saffron Walden, Essex
CB11 3AU

T. +44 (0)1799 514800
E. sales@contamac.co.uk
www.contamac.com