

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.

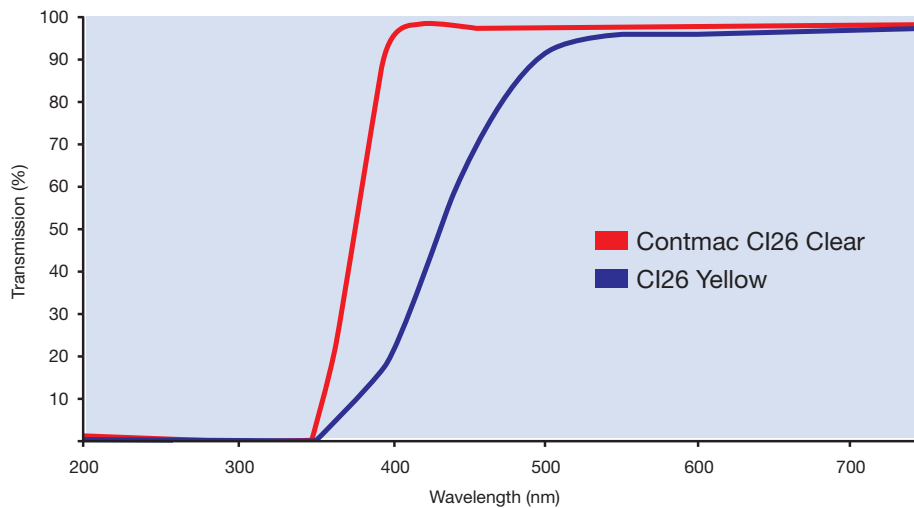
Contamac offers a yellow version of this material (CI26Y) in order to improve the blue light absorption which is believed to reduce the risk of age related macular degeneration.

Material Characteristics:

Properties	CI26	CI26Y
Swell Factor	1.13 at 20°C	1.13 at 20°C
Water Content	26% at 20°C	26% at 20°C
Refractive Index @ 20°C hydrated	1.460	1.460
Refractive Index @ 35°C hydrated	1.457	1.457
Refractive Index dry	1.51	1.51
Light Transmission	See graph on page 2	
Density	1.18g/cm ³ Hydrated	1.18g/cm ³ Hydrated
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 & 16.0 mm	12.70 & 16.0 mm
Thickness	3.00mm	3.00mm

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





Diamond Tooling:

Tooling	Radius (mm)
Rough	0.30 – 0.50mm
Fine	0.30 – 0.50mm

Machining Recommendations:

Lathe type	RPM	Bulk cut	Fine Cut
Manual	7,000	0.5 – 0.7mm	0.05 – 0.10mm
CNC	7,000	0.5 – 0.7mm	0.05 – 0.10mm
Air Bearing	10,000	0.5 – 0.7mm	0.05mm

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.

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