

TECHNICAL DATA

CI18

Special Attributes

Nature: Copolymer of hydroxyethyl methacrylate and methyl methacrylate

The CI18 is a variation of the well known and established CI26. The specific material properties required for less conventional lens designs can be achieved through the mechanical and optical properties of these products.

Material Characteristics

PROPERTY	CI18
Swell Factor at 20°C	1.10
Water Content at 20°C	18 %
Refractive Index Hydrated	1.471
Light Transmission at 400 - 440 nm	>95 %
UV Blocker	Standard
Diameter	12.70 & 16.00 mm
Thickness	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.

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

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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 CI18 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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