

Technical Data Sheet

PMMA

Special Attributes:

Nature: Poly (methyl methacrylate)

Contamac's PMMA offers outstanding stability and optical qualities for a predictable outcome and maximum performance. The material is supplied exclusively in a blank format to maximise efficiency and reduce production costs.

Available in Clear for lens production and in Blue for capsular tension rings.

Material Characteristics:

Properties	PMMA
Water Content	0.22% at 20°C
Refractive Index @ 20°C	1.49
Light Transmission	> 90% (400-440nm)
Density	1.185g/cm ³
Hardness	89 Shore D
UV Blocker	Standard
Diameter	12.70 & 16.0mm
Thickness	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	0.30mm – 0.50mm
Fine	0.30mm

Machining Recommendations:

Lathe type	RPM	Bulk cut	Fine Cut
Manual	7,000	0.5 – 0.7mm	0.05mm
CNC	7,000	0.5 – 0.7mm	0.05mm
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 PMMA material can be polished using tumble polishing methods.

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