

TECHNICAL DATA

OPTIMUM

Special Attributes

The Optimum range of GP materials offer the lowest wetting angles in the industry, outstanding oxygen permeability and high stability, all to achieve one goal - on eye comfort. Optimum is FDA approved for a full range of indications such as myopia, hyperopia, astigmatism and aphakia. The balanced properties of Optimum makes this material ideally suited for a range of lens designs such as toric, multifocal, keratoconus or corneas with high oxygen demand. The Optimum range of materials also has FDA approval for the enhancement of surface wettability through the use of Tangible Hydra-PEG coating.

Material Characteristics

PROPERTY	OPTIMUM CLASSIC	OPTIMUM COMFORT	OPTIMUM EXTRA	OPTIMUM EXTREME
Classification	Focon III 2	Focon III 4	Focon III 4	Focon III 5
USAN	Roflufocon A	Roflufocon C	Roflufocon D	Roflufocon E
Receding Contact Angle (DCA)	12	6	3	6
Light Transmission (Clear)	>97 %	>96 %	>97 %	>94 %
Oxygen Permeability (ISO) at 35°C (barrers)	26	65	100	125
Refractive Index	1.450	1.437	1.431	1.432
Shore D Hardness	83	79	75	77
Specific Gravity	1.19	1.17	1.16	1.15
Handling Tints	Blue, Lt Blue, Green, Grey	Blue, Lt Blue, Green, Forest Green, Grey, Brown, Red	Clear, Blue, Lt Blue, Green, Grey, Violet	Clear, Blue, Lt Blue, Green, Grey, Violet, Red
UV Blocker	On request	On request	On request	On request
Diameter	12.70 mm	12.70 mm	12.70 mm	12.70 mm
Thickness	4.70 mm	4.70 mm	4.70 mm	4.70 mm
Polishing Compound	Contapol 3	Contapol 3	Contapol 3	Contapol 3
Blocking Wax	Low melt	Low melt	Low melt	Low melt
Cutting Speed	7,000 - 9,000 rpm	7,000 - 9,000 rpm	7,000 - 9,000 rpm	7,000 - 9,000 rpm
Polishing Speed	3,500 rpm	3,500 rpm	3,500 rpm	3,500 rpm

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Manufacturing Consumables

Low melt wax
Water soluble wax
Contapol 3 polishing compound
Siflo polishing compound
Microfiber polishing cloth
Silk polishing cloth
Delrin polishing cups
Delrin polishing sponge
Delrin drum polishing sponge
Contasolve de-blocking solution
Roller sponges

Accessories

Laboratory lens handler
Double soft lens mailers
RGP double mailers
Large RGP double mailers
Plastic tamper evident RGP vial
Double optibase plastic RGP vial
OptimumRGP trial set
Lens remover
DMV RGP lens remover
DMV scleral lens removers
Lens catch mat

Reference

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