

TECHNICAL DATA

The Optimum range offers a wide choice of oxygen permeabilities, excellent wettability and high stability. Optimum is FDA-cleared for a broad range of indications and contact lens modalities. Its stability and balanced properties make it ideally suited for a range of lens designs, including toric, multifocal, keratoconus and scleral. Optimum comes in five Dk ranges, giving laboratories the ability to recommend the ideal lens design and improve performance.

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	OPTIMUM CLASSIC	OPTIMUM COMFORT	OPTIMUM EXTRA	OPTIMUM EXTREME	OPTIMUM INFINITE
Oxygen Permeability (ISO) at 35°C (Barrer)	26	65	100	125	180
Tangible Hydra-PEG	Available	Available	Available	Available	Available
Refractive Index	1.45	1.44	1.43	1.43	1.43
Shore D Hardness	83	79	76	77	81
Flexural Modulus (MPa)	1800	1500	1250	1200	1500
Flexural Strength (MPa)	80	66	47	53	70
UV Blocker	Available	Available	Available	Available	Standard
Classification (ANSI)	Roflufocon A III 2	Roflufocon C III 4	Roflufocon D III 4	Roflufocon E III 5	Tisilfocon A III 6
Classification (ISO)	Roflufocon A 3 (26)	Roflufocon C 3 (65)	Roflufocon D 3 (100)	Roflufocon E 3 (125)	Tisilfocon A 3 (180)
USAN	Roflufocon A	Roflufocon C	Roflufocon D	Roflufocon E	Tisilfocon A

Please note: Some values may have been rounded for presentation purposes. Please contact your account manager for further details.

Manufacturing Consumables

Low Melt Black Wax
Contapol 3 Polish
Delrin Polishing Cup

Delrin Polishing Sponge
Grey Roller Sponge
Microfiber Polishing Cloth

Accessories

Laboratory Lens Handler
Double Soft Lens Mailers
Double GP Mailers
DMV RGP Lens Remover Ultra

DMV Soft Lens Handler/Remover
DMV Scleral Suction Holder

Material and Lathing Recommendations

LATHE FUNCTION	DAC INCHES/MINUTE	REM μ/SECOND	OPTOFORM mm/MINUTE
Rough Cut Amount (mm)	0.40 (0.30 - 0.50)	0.40 (0.30 - 0.50)	0.40 (0.30 - 0.50)
Rough Feed Rate	4 (3 - 4)	1666 (1250 - 1666)	100 (75 - 100)
Rough Spindle Speed	8000 (7000 - 9000)	8000 (7000 - 9000)	8000 (7000 - 9000)
Rough Cut Amount (mm) (Last Pass)	0.10 (0.10 - 0.20)	0.10 (0.10 - 0.20)	0.10 (0.10 - 0.20)
Rough Feed Rate (Last Pass)	1.5 (1 - 2)	633 (416 - 833)	38 (25 - 50)
Rough Spindle Speed (Last Pass)	7000 (6500 - 9000)	7000 (6500 - 9000)	7000 (6500 - 9000)
Final Feed Rate	0.60 (0.5 - 1)	250 (216 - 416)	15 (13 - 25)
Final Spindle Speed	7000 (6500 - 8000)	7000 (6500 - 8000)	7000 (6500 - 8000)
Final Cut Amount (mm)	0.05 (0.05 - 0.10)	0.05 (0.05 - 0.10)	0.05 (0.05 - 0.10)