

HIOXIFILCON

TECHNICAL DATA

Our Hioxifilcon B and D materials contain glycerol methacrylate and offer manufacturers an alternative source for their Hioxifilcon materials.

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	HIOXIFILCON B	HIOXIFILCON D
Oxygen Permeability (ISO) at 35°C (Barrer)	16	21
Water Content at 20°C by Weight (%)	49	54
Swell Factor at 20°C	1.29	1.37
Refractive Index at 20°C - Hydrated	1.42	1.41
Refractive Index at 20°C - Dry	1.52	1.52
Modulus - Elasticity (MPa)	0.44	0.34
Tensile Strength (MPa)	1.06	1.02
Elongation to Break (%)	374	393
UV Blocker	Not Available	Not Available
Classification (ANSI)	Hioxifilcon B I 2	Hioxifilcon D I 2
Classification (ISO)	Hioxifilcon B 1 (16) [49%]	Hioxifilcon D 1 (21) [54%]
USAN	Hioxifilcon B	Hioxifilcon D

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

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	2.5 (2 - 3)	1050 (833 - 1250)	63 (50 - 75)
Rough Spindle Speed	9500 (9000 - 10,000)	9500 (9000 - 10,000)	9500 (9000 - 10,000)
Rough Cut Amount (mm) (Last Pass)	0.15 (0.10 - 0.20)	0.15 (0.10 - 0.20)	0.15 (0.10 - 0.20)
Rough Feed Rate (Last Pass)	0.80 (0.80 - 1.2)	333 (333 - 500)	20 (20 - 30)
Rough Spindle Speed (Last Pass)	9500 (8000 - 9500)	9500 (6500 - 9500)	9500 (8000 - 9500)
Final Feed Rate	0.60 (0.4 - 0.8)	250 (166 - 333)	15 (10 - 20)
Final Spindle Speed	9000 (8500 - 10,000)	9000 (8500 - 10,000)	9000 (8500 - 10,000)
Final Cut Amount (mm)	0.05 (0.05 - 0.10)	0.05 (0.05 - 0.10)	0.05 (0.05 - 0.10)