

Lagado Latheable Silicone Hydrogel (LSH) Material

A New Silicone Hydrogel for Custom Lens Design

LSH was formulated to meet the growing need for made to order silicone hydrogel lenses.

LSH lenses can be made in all designs. Allowing specialty lens fitters and their lens manufacturing partners the ability to offer custom made silicone hydrogel lenses for any condition.

LSH lenses are plasma oxidized using a proprietary process to produce a low wetting angle and improved wettability - helping to promote lens comfort, improve visual performance, and reduce the potential for deposits.



The Benefits of Lagado Latheable Silicone Hydrogel Material

- Dk 49 - ideal for daily wear
- Mid-range water content - 49% - optimizes durability
- Lowest wetting angle of comparable silicone hydrogels
- Available in clear, blue, or aqua tints with UV light absorber
- Easily machined into any custom design - 1.26 expansion factor and 12.7mm button diameter enable the use of standard lathe parameters
- More than twice the burst strength of existing silicone hydrogel material for increased durability

The Newest Standard for Custom Silicone Hydrogel

Material Properties	
Expansion Factor	1.26
Manufacturing Method	Lathe
Surface Treatment	Plasma
Wetting Angle	60°
% Water	49%
Dk	49
Modulus	0.8
Burst Strength	22 psi
Elongation at Break	436%
Tensile Strength (MPa)	2.88
Available Tints	Clear, Blue and Aqua
UV Absorber	Yes



“LSH was formulated to achieve the ideal balance between manufacturing requirements and clinical needs.”

Bill Hoffman, Lagado Corporation

Recommend the newest silicone hydrogel for custom lens designs.



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