

[Home](#) > [Our Products](#) > [Gas Permeable Materials](#)

Paragon Lens Materials

Paragon Vision Sciences has a range of gas permeable (GP) materials that can be ordered in a variety of specialty lens designs for patients with low to demanding visual requirements. From low to mid-range Dk materials such as FluoroPerm® 30, 60 and Paragon HDS® to high Dk materials like Paragon HDS®100, Paragon Vision Sciences is here to supply you with premium GP materials you can trust.



The Paragon HDS® Technology

The more options you have as a practitioner, the better prepared you are to improve your patients' vision. Paragon Vision Sciences is proud to provide you with industry-leading oxygen permeable materials, unique and outstanding support programs, and industry alliances that benefit your practice.

Today's active individual demands vision correction options that provide comfort, clarity and extended wear options. Patients require reliable, effective and FDA-approved lens materials that can accommodate even the most challenging prescriptions. The HDS® Technology family of materials meet the needs of every member of your patient family whether their need is a toric lens, multi-focal or even a spherical lens. Your patients will value their clear vision and your expertise. The result is happy, loyal patients you'll see year after year.

Paragon HDS®

Paragon HDS® and Paragon HDS®100 are FDA approved for up to 7 days of extended wear and provide visual performance, stability, wettability, comfort and ISO/ANSI Dk values of 40 and 101 respectively, .

Just because a material has a high Dk does not mean clinical safety for extended wear has or can be established. That is why the FDA requires demonstrated product performance through extensive clinical study to obtain extended wear approval. Paragon HDS (paflucocon B, ISO DK 40) and Paragon HDS®100 (paflucocon D, ISO DK 101) are approved by the FDA for up to seven (7) days of extended wear.

When prescribing lenses for applications involving extended or flexible wear, choose a material that is stable, wettable, comfortable, cleared for the indication and proven to have the oxygen permeability your patients need.

Paragon HDS® (paflucocon B)

Paragon HDS incorporates a Hyperpurified Delivery System, which purifies the material's silicone content. This means that Paragon HDS has one of the most efficient oxygen delivery systems in the industry, allowing for unprecedented designs with both stability and oxygen permeability.

DESCRIPTION	INDICATIONS	MATERIAL CHARACTERISTICS		LENS PARAMETERS	
<p>Daily Wear</p> <ul style="list-style-type: none"> Lathe cut Molded firm Spherical, aspheric, bifocal or toric anterior and/or posterior <p>Extended Wear</p> <ul style="list-style-type: none"> Lathe cut Molded firm contact lenses with spherical or aspheric anterior or posterior surfaces in tinted versions. A peripheral curve system on the posterior surface allows tear exchange between the lens and the cornea. <p>Material is thermoset copolymer derived from fluorosilicone acrylate monomers. May Be Plasma Treated.</p>	<p>Daily And Extended Wear</p> <p>Bifocal</p> <p>Toric</p> <p>Myopia</p> <p>Hyperopia</p> <p>Astigmatism</p> <p>Presbyopia</p> <p>Keratoconus</p> <p>Pellucid Marginal Degeneration</p> <p>Following Penetrating Keratoplasty, Radial Keratotomy, or LASIK Surgery</p> <p>Non-Diseased Eyes</p>	Refractive Index	1.449 (n_d at 25° C)	Chord Diameter	7.0 to 21.0 mm
		Luminous Transmittance+ (Crystal Blue)	98%	Lenses with diameters of 7.0 mm to 10.5 mm are available for extended wear.	
		Luminous Transmittance (Violet)	97%	Lenses with diameters of 7.0 mm to 21.0 mm are available for daily wear.	
		Luminous Transmittance+ (Sapphire Blue)	95%	Center Thickness	0.05 to 0.70 mm
		Luminous Transmittance+ (Emerald Green)	95%	Base Curve	6.50 to 9.00 mm
		Luminous Transmittance+ (Forest Green)	90%	Powers Daily Wear	-20.00 to +12.00 Diopters
		Wetting Angle	14.7°	Powers Extended Wear	-20.00 to +8.00 Diopters
		(Receding Angle)++ Wetting Angle	62°	Bifocal Add Powers	+0.25 to +4.00 Diopters
		(Contact Angle)+++ Specific Gravity	1.16	Monocentric Bifocal Add Diameter	4.0 to 9.0 mm
		Hardness (Shore D)	84	Monocentric Bifocal Prism	1.0 to 2.5 Diopters
		Water Content	<1%	Concentric Bifocal Add Diameter	2.0 to 4.0 mm
		Oxygen Permeability*	40 x 10 ⁻¹¹ Dk at 35° C		
		<p>+ Determination of the Spectral and Luminous Transmittance, ISO8599: 1994 ++ Method adapted from article; A New Method for Wetting Angle Measurement; M. Madigan, B. Holden and D. Fong; International Eyecare, 01/1998, vol. 2, no. 1, p. 45 +++ Sessile Drop Technique per ANSI Z80.20, 8.11 *(cm²/sec) (mL O₂) / (mL x mm Hg) ISO/ANSI Method, ISO 9913-1</p>			

Paragon HDS® (paflucocon B)