

GAS PERMEABLE LENSES

A wide range of Gas Permeable materials with a choice of oxygen permeability in a variety of standard and specialist designs.



DAVID THOMAS

"an eye for excellence"

Introduction

David Thomas Contact Lenses only use Gas Permeable materials produced by the leading polymer laboratories and manufactured to exacting standards.

A wide choice of designs and materials allows the practitioner to select the best combination for a successful fitting. DTCL have been manufacturing Gas Permeable Lenses for over thirty five years and have built up a justifiable reputation for quality and service. We continue to invest in the latest automatic equipment to enable us to produce the highest quality contact lenses and to offer an efficient and reliable service.

Our highly experienced staff are always available to give you advice and information over the telephone on our wide range of lenses.

Gas Permeable Lenses are supplied with the option to have a comprehensive exchange and credit facility if required.

Lens Design

DTCL can manufacture and supply gas permeable lenses in a wide range of lens designs. However, based on experience over many years we have also developed our own successful standard lens designs.

Standard Ledaperm

Our Ledaperm design is a very well blended multicurve, developed to give a constant axial edge lift of 0.12mm. We have been supplying lenses in this spherical form for many years and it has become the most popular design ordered.

A large number of patients using gas permeable lenses in this country are successfully wearing lenses manufactured in the Ledaperm parameters. Ledaperm lenses are available in a wide range of base curves and powers. There is a choice of either 9.00mm or 9.60mm total diameter. The 9.00mm has an optic zone of 7.40mm and the 9.60mm has an optic zone of 7.80mm. Other diameters can be supplied on request. Movement over the cornea should be smooth with no lateral slide. A steep fit is indicated by a dark peripheral fluorescein pattern and central pooling with the lens exhibiting a tendency to adhere to the cornea and have limited movement. A flat fitting lens will exhibit extreme fluorescein staining peripherally, apical touch and excessive lag upon blinking.

Standard Profile Aspheric

The Profile Aspheric design incorporates a spherical optic zone, an innovative progressively flattening aspheric periphery and a uniform edge thickness design generated by advanced computerised lathes. The Profile design is a result of two years of clinical research and development in the United Kingdom and America. This has resulted in a lens that is easy to fit and closely follows the natural curvature of the cornea. The lenticular design maintains a thin overall lens profile with a uniform edge thickness throughout the power range reducing lens mass and increasing oxygen transmission.

The Profile Aspheric lens contour with its spherical optical zone and its progressively flattening aspheric periphery makes fitting easy and reduces chair time for the practitioner whilst increasing lens comfort and wearing times for the patient. Experience has shown a high degree of first fit success when following the empirical fitting guide.

Other Designs

Our wide range of materials are also available in other designs. We can manufacture gas permeable lenses with base curves between 4.80mm and 9.00mm, powers between plus and minus 30.00 dioptres and diameters from 7.50mm to 12.00mm. We are the exclusive UK manufacturer of the Rose K2 design for keratoconus patients. The Rose K range of designs are now the most successful keratoconus patients worldwide.

We are also the only British manufacturer producing lenses in Comfort GP material the world's first rigid gas permeable silicone hydrogel material.

Fitting Guide

All of the materials we produce can be supplied in our standard designs or to practitioner's own specifications. A wide range of trial sets are available either for purchase or loan. Lenses can also be fitted empirically by quoting keratometry readings, HVID and spectacle Rx details including BVD, at the time of placing an order.

Alternatively, use the fitting table opposite to compute the lens specification required.

When reducing the total diameter of a Ledaperm lens by 0.50mm, steepen the BOZR by 0.05mm and compensate the power by adding minus 0.25D. When increasing the diameter by 0.50mm, flatten the BOZR by 0.05mm and adjust the power by adding plus 0.25D.

An alteration in diameter of the Profile Aspheric design does not require any adjustment to the BOZR or power.

Empirical Fitting Guide

Flattest K Readings	LEDAPERM & PROFILE ASPHERIC 9.60 Ø				LEDAPERM 9.00 Ø			
	Initial Base Curve Selection							
	Difference in K readings				Difference in K Readings			
	Upto 0.05mm	Upto 0.10mm	Upto 0.20mm	Upto 0.30mm	Upto 0.05mm	Upto 0.10mm	Upto 0.20mm	Upto 0.30mm
7.20	7.25	7.20	7.15	7.10	7.20	7.15	7.10	7.05
7.25	7.30	7.25	7.20	7.15	7.25	7.20	7.15	7.10
7.30	7.35	7.30	7.25	7.20	7.30	7.25	7.20	7.15
7.35	7.40	7.35	7.30	7.25	7.35	7.30	7.25	7.20
7.40	7.45	7.40	7.35	7.30	7.40	7.35	7.30	7.25
7.45	7.50	7.45	7.40	7.35	7.45	7.40	7.35	7.30
7.50	7.55	7.50	7.45	7.40	7.50	7.45	7.40	7.35
7.55	7.60	7.55	7.50	7.45	7.55	7.50	7.45	7.40
7.60	7.65	7.60	7.55	7.50	7.60	7.55	7.50	7.45
7.65	7.70	7.65	7.60	7.55	7.65	7.60	7.55	7.50
7.70	7.75	7.70	7.65	7.60	7.70	7.65	7.60	7.55
7.75	7.80	7.75	7.70	7.65	7.75	7.70	7.65	7.60
7.80	7.85	7.80	7.75	7.70	7.80	7.75	7.70	7.65
7.85	7.90	7.85	7.80	7.75	7.85	7.80	7.75	7.70
7.90	7.95	7.90	7.85	7.80	7.90	7.85	7.80	7.75
7.95	8.00	7.95	7.90	7.85	7.95	7.90	7.85	7.80
8.00	8.05	8.00	7.95	7.90	8.00	7.95	7.90	7.85
8.05	8.10	8.05	8.00	7.95	8.05	8.00	7.95	7.90
8.10	8.15	8.10	8.05	8.00	8.10	8.05	8.00	7.95
8.15	8.20	8.15	8.10	8.05	8.15	8.10	8.05	8.00
8.20	8.25	8.20	8.15	8.10	8.20	8.15	8.10	8.05
8.25	8.30	8.25	8.20	8.15	8.25	8.20	8.15	8.10
8.30	8.35	8.30	8.25	8.20	8.30	8.25	8.20	8.15
8.35	8.40	8.35	8.30	8.25	8.35	8.30	8.25	8.20
8.40	8.45	8.40	8.35	8.30	8.40	8.35	8.30	8.25

Please note other diameters are available in these designs.

Trial Sets and Trial Lenses

Trial sets and trial lenses are available if required to assist you in the fitting of gas permeable lenses. All of our trial lenses are made in an appropriate gas permeable material as we strongly believe that patients being assessed for gas permeable wear should be fitted with a lens that exhibits the same fitting characteristics as the one that will eventually be supplied to the patient.

Standard Ledaperm, Profile Aspheric and Rose K2 system trial sets can be supplied. These sets together with a wide range of trial sets in different spherical, toric and high powers are also available from our extensive library of loan sets, free of charge for two weeks.

If you wish to purchase a non standard set then this can be supplied at our normal lens price less 60%.

Individual replacement lenses for the sets can be supplied for a small charge (see separate price list) if you wish to dispose of your trial lenses after use.

Gas Permeable Lens Frequent Replacement Scheme

It is clinically accepted that frequent replacement of both soft and gas permeable lenses provides the healthiest option for patients. In view of this we operate a computerised frequent replacement scheme which enables us to send out new lenses automatically approximately one week before the due date.

Practitioners who register their patients on our frequent replacement scheme can elect to receive new lenses on a six monthly or yearly basis.

Lenses supplied on a six monthly basis are subject to a 30% reduction off list price and on a yearly basis 25% reduction off list price.

Patients will benefit and should be encouraged to replace their gas permeable lenses on a regular basis.

Gas Permeable Material Choice

We offer a wide range of materials from the major polymer suppliers. All of the materials we use are tested for stability and suitability for contact lens manufacture.

Our aim is to make available to practitioners and patients a comprehensive choice of versatile materials that result in successful gas permeable lens wear.

We are always available to discuss specific patient requirements with you and recommend a suitable material or design.

Material Name	Dk (Fatt)	UV	Tint Blue	Tint Grey	Tint Green	Tint Violet	Other
Boston IV	19	No	Yes	No	No	No	No
Boston Equalens	47	Yes	Yes	No	No	No	No
Boston Equalens II	85	Yes	Yes	No	No	No	Clear
Boston ES	18	Yes	Yes	Yes	Yes	No	No
Boston EO	58	Yes	Yes	Yes	Yes	No	Brown
Boston XO	100	Yes	Yes	No	Yes	Yes	No
Boston XO2	141	Yes	Yes	No	Yes	Yes	No
Fluorolens 25	26	No	Yes	Yes	No	No	Clear
Fluorolens 50	56	No	Yes	Yes	No	No	Clear
Fluorolens 90	102	No	Yes	Yes	No	No	Clear
Optimum Classic	26	Yes	Yes	Yes	Yes	No	Clear
Optimum Comfort	65	Yes	Yes	Yes	Yes	No	Clear
Optimum Extra	100	Yes	Yes	Yes	Yes	No	Clear
Optimum Extreme	125	Yes	Yes	Yes	Yes	No	Clear
Comfort DR	26	Yes	Yes	No	No	No	No
Comfort GP	56	Yes	Yes	Yes	No	No	No
Comfort HO	97	Yes	Yes	No	No	No	No
Fluoroperm 30	30	Yes	Yes	Yes	Yes	No	No
Fluoroperm 60	60	Yes	Yes	No	Yes	No	No
Fluroperm 90	92	Yes	Yes	No	Yes	No	No
Fluroperm 151	151	Yes	Yes	No	No	No	No
Paragon HDS	58	Yes/No	Yes	No	Yes	No	No
Paragon HDS 100	145	No	Yes	No	Yes	No	No
Hybrid FS	23	No	Yes	Yes	Yes	No	Clear
Menicon Z	189	Yes	Yes	No	No	No	No

Lens Warranty Option

Lenses ordered with exchange can be returned for two free exchanges for a period of ninety days from original order if the fit needs to be modified or alternatively they can be returned for a 75% credit within the ninety days.



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