

AUGUST 2009 PAGE 27



Fig 5: Plastic lenses coated with OLIVIN P in three different

oxide (MgO) and some of the colour materials. Transparent conductive oxides such as ITO can also contribute to adhesion.

Antistatic films that can be incorporated at different positions within the coating stack are based on conducting layers and realised by Indium tin oxide (ITO), metal layers or reduced oxide layers.

There are several approaches to Cleancoat or easy-to-clean films.

Currently used film materials for spectacle lenses are fluorocarbons designed for maximum water, oil and grease repellence from the lens surface which is realised by high contact angles to water and oily substances. Materials with static water contact angles up to ~105° are called hydrophobic (examples: Hydrophobica, Topcoat3), those with

water contact angles >110° and contact angles to hexadecane (an oily substance) >65° as super hydrophobic and oleophobic. Whereas the mentioned hydrophobic materials do not pose particular problems to pad adhesion for the post-deposition processing (lens edging), most of the available super hydrophobic substances do. Super hydrophobic films are mostly differentiating in their pad stick-

ing ability. Most available super hydrophic materials yield films with sticking problems for the optical pads that have to be overcome by additional pads or temporary layers, leading to additional costs. An example of a super hydrophobic material with water and oil repellence at the inherent limit, but improved pad adhesion, is Everclean3 . Another approach to a high cleaning comfort are hydrophilic films, i.e., films with an improved wetting of water for eased cleaning. So far, they have not proved popular in ophthalmic lens coating.

REFERENCES

Values at a light wavelength of 550 nm, for coating conditions applicable to plastic lenses.

*Ti₂O₃^{LINCORE} is a proprietary Umicore version of doped Ti₂O₃.

DRALO, LATI, ROMA, PIZOLIN, LIMA, MABUNIT, MELDINA, GREY A, MG51, OLIVIN C, ROSE, OLIVIN P, HYDROPHOBIC, TOPCOAT and EVERCLEAN are trademarks of proprietary coating material mixtures of Umicore Thin Film Products.



Ready readers from Buchmann

'I wonder if any opticians have thought of approaching local restaurants with the offer of a set of +1.00 to +3.50 half glasses to ensure their diners can enjoy the wine list to the full.' said Andrew Brandi, managing director of Buchmann UK.

Distributing new collections from the B&S Shoptic catalogue, Buchmann bring together flex hinge, lightweight, stylish metals, in full and half rim styles, several in stainless steel while others are in bright, high quality acetates, with some in two tone options.

Filigree sides, and floral relief acetate which reveal the secondary

green, black with cherry, black with blue, or tortoiseshell, cherry, blue and aqua. For the more conservative are sleek looks in silver and black.

Available with twelve or six piece acrylic-display stands, the B&S ready readers range has something for all tastes.

> For further details visit: www.buchmann.co.uk



Italian eyewear collection

Capriss the Italian eyewear brand, is now presenting its latest glamorous models



The frames are made specially by their High Definition acetate and they are easy to wear, thanks to their original and sophisticated style.

Features are the subtle metal part decorations with the engraved and embossed C logo. Elegance is evoked by the classical high definition patterns, models CP0922, CP09031, CP09032.

For further details email: comuni-





