

# **// BALZERS OPTICS**

# Iralin™ - Duolin™ - Supertriolin™

#### **Broadband Anti-Reflection Coatings**

Materion Balzers Optics offers a range of different anti-reflection coatings to cover a large field of applications:

- Multilayer AR-coatings designed for maximum efficiency in the visible range. Our Iralin™ family can be shifted either into the UV range down to 350 nm or into the near infrared up to 1100 nm.
- Duolin<sup>™</sup> is laid out for the visible range plus an additional laser line. This can be any conventional low power laser.
- Supertriolin<sup>™</sup> covers a very broad range of the spectrum between 450 nm up to 1100 nm. The bandwidth can even be extended as well at the cost of slightly higher reflectivity.
- All these coatings are useable for most commercial glass substrates.



#### **Technical Data**

#### Iralin 85™

Rabs. < 0.4%	450 – 650 nm	$AOI = 0-15^{\circ}$
Ravg. < 0.3%	450 – 650 nm	$AOI = 0-15^{\circ}$

#### Iralin 86™

Rabs. < 0.4%	400-610 nm	$AOI = 0-15^{\circ}$
Ravg. < 0.3%	400 – 610 nm	$AOI = 0 - 15^{\circ}$

The below mentioned coatings can be made to conform to many different applications by modifying band width

# Iralin 87™

Rabs. < 0.5%	400-700 nm	$AOI = 0 - 15^{\circ}$

### Duolin"

Ravg. < 0.5%	475 – 670 nm	$AOI = 0 - 15^{\circ}$
Rabs. < 0.5%	1064 nm	$AOI = 0 - 15^{\circ}$

other laser wave length are available on request

#### Supertriolin<sup>13</sup>

Ravg. < 0.8%	450-1100 nm	$AOI = 0-15^{\circ}$
Rabs. < 1.3%	450-1100 nm	$AOI = 0-15^{\circ}$

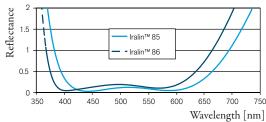
#### Environmental properties, according to

#### MIL-C-675B

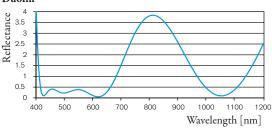
para. 4.5.7	salt solution, 24 h in 4.5% NaCl
para. 4.5.8	humidity, 24 h 49°C at > 95% r. H.
para. 4.5.9	salt fog, 24 h in 4.5% NaCl
para. 4.5.10	hardness, gum 40 strokes
para. 4.5.11	hardness, cheesecloth 50 strokes
para. 4.5.12	adherence, scotch tape test

Optics Balzers offers a range of different anti-reflexcoatings to cover a large field of applications.

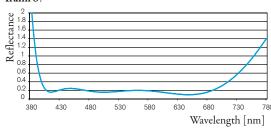
#### Iralin 85™ - Iralin 86™



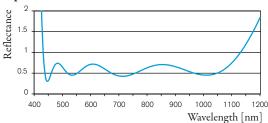
# Duolin"



# Iralin 87™



# Supertriolin<sup>13</sup>



Optics Balzers AG Neugrüt 35 LI-9496 Balzers

Liechtenstein T +423 388 9200 F +423 388 9390 info.mbo@materion.com www.materion.com/balzersoptics

MBO 026 PE (2206-1)

Subject to technical change without notice

1/1