



IODA S.r.l

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REVO-01 The ultimate Led lenses material.



REVO-01 is a polyurethane material, for optical applications, used exclusively by IODA for the construction of lenses at d lighting industrial use.

Developed in collaboration with Acomon AG (Japanese multinational) the composition of the REVO-01 has been

modified in order to create lenses that not only boast advanced optical properties but also lightweight, with excellent mechanical properties and high stability over time (not sensitive to light UV).

REVO-01 is characterized by:- Excellent high optical transparency characteristics; high Abbe number and high refractive index.

- Excellent mechanical characteristics, excellent impact resistance, mechanical workability, toughness and high resistance to chemicals (resistance to solvents such as acetone, benzene, and ethanol).

- Excellent resistance to high temperatures, while the PMMA or polycarbonate lenses is advisable not to exceed 75/80 ° c for the year, with lenses REVO-01 you can go up to 120 ° C without problems.

IODA is engaged in the design and manufacture of lenses,

REVO-01 is crucial for the creation of innovative products and high technological content.

Properties of REVO-01material:

	REVO-01	Method
Optical Properties		
Refractive Index	1,507	ASTM D 542
Abbe Nr.	54	ASTM D 542
Yellowness Index	0,5	ASTM D 1925
Light Trasmission, %	92.5	ASTM D 1003
Haze, %	0,1	ASTM D 1003
Chemical properties		
Heavy metals content	None	Internal
Ethanol (Alcol)	No defects	Internal
H2SO4 (sulfuric acid)	No defects	Internal
10%NaOH (Sodium hydroxide)	No defects	Internal
Acetone	No defects	Internal



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Temperature working range

From -40°C to +120°C
 From -40°F to 264°F

No defects
 No defects

Internal
 Internal

Physical Properties

Specific gravity, 20°C.	1,116	ASTM D 792
Hardness, Rockwell M	107	ASTM D 785
Izod Impact Strength (unnotch), KJ/m2	150	ASTM D 256
Head Distortion Temperature, °C	120	ASTM D 648
Abrasion resistance, Haaze %	14	Steel wool
Polymerisation Shrinkage, %	4,5	Internal
Tensile strenght, Kgf/mm	33	Internal
Tinting	Excellent	Internal
Surfacing & edging	Excellent	Internal
Drilling	Excellent	Internal

Outdoor durability and thermal ageing.

Yellowness Index ASTM 1925

Plano lenses	Unaged= 0,5	Aged 24h at 110°C	Aged 2 years outdoor
REVO-01	0,5	0,7	0,9

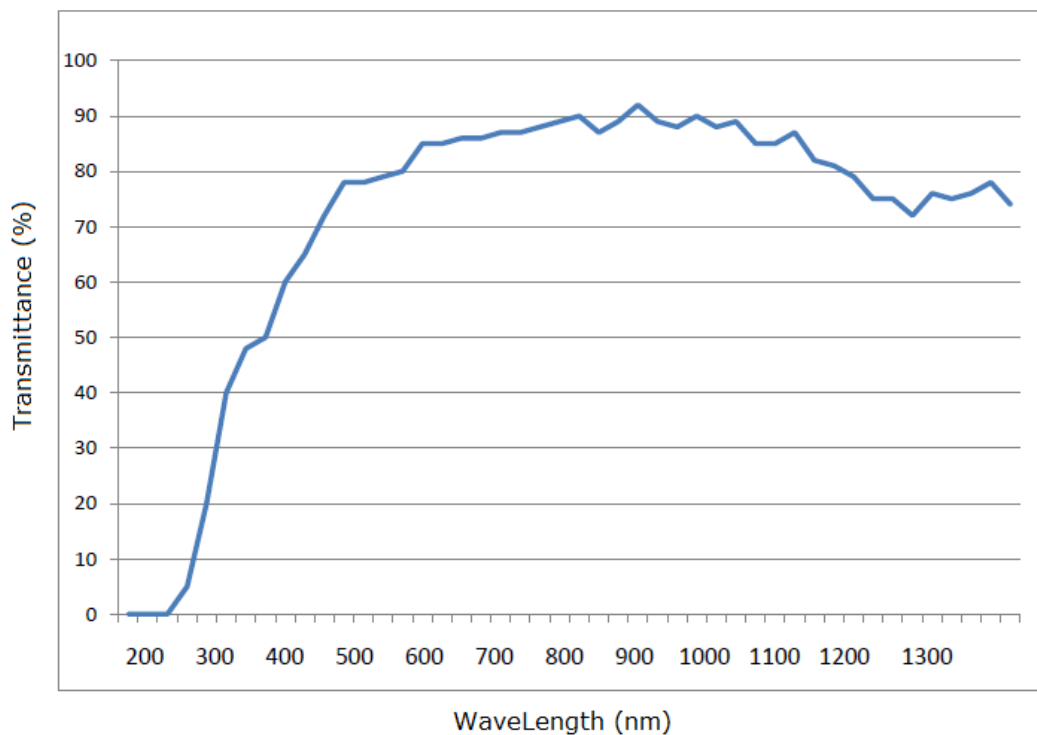
Trasmittance diagram :

Spectrum / Peak report Date 15/09/2014 hours 11:39

Method file: DEG.M (Modified)

Information: Default Method

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