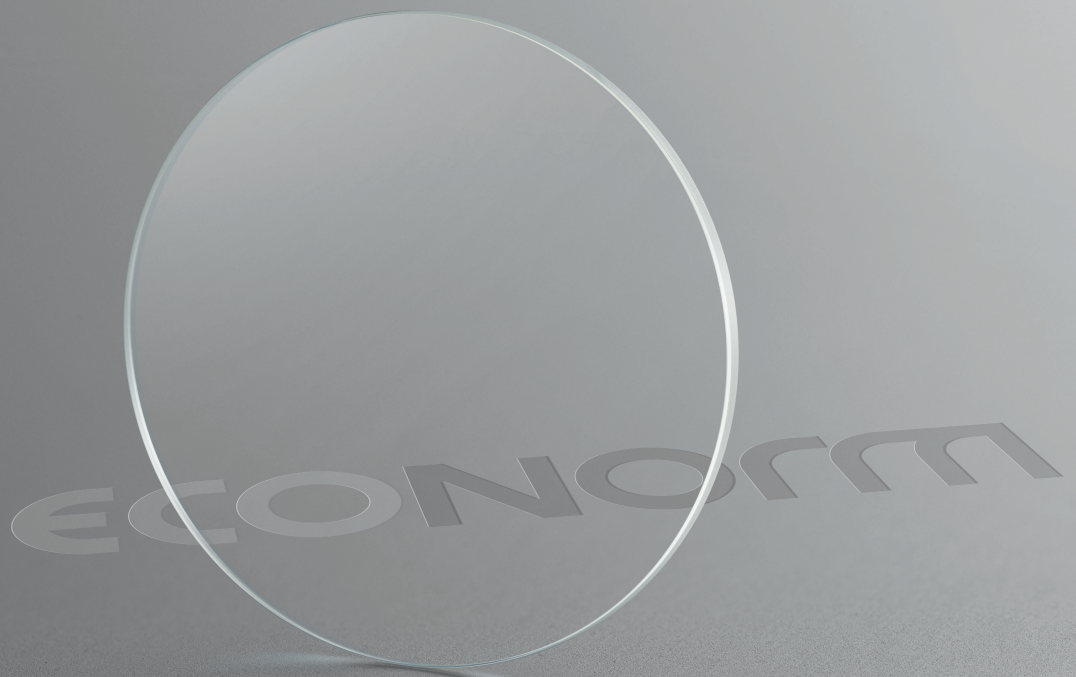
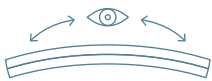


ARcroma[®]

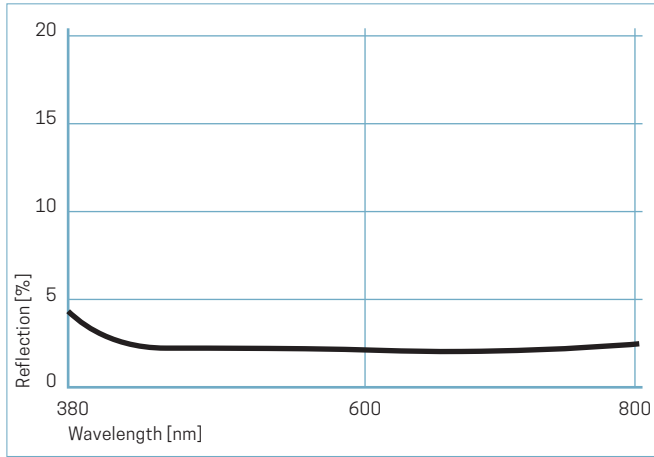


Colourless



Achromatic

Reflection curve



Product structure



Properties

Optical

Reflection ≤3%	●
UV filter	—
Achromatic	●

Mechanical

Hard	—
Highly wear-resistant	—
Anti-static	—



Chemical

Water- and oil-repellent	—
Resistant to solvents	●
Low-temperature process	—
Alkali-resistant	●
Resistant to ultrasound	●

Geometric

Drilling, opening	●
Highly convex	●

Quality tests

Mechanical resistance	Description	Results
Vibratory finishing (chemical-mechanical polishing)	2 hours in a vibrating bowl with cylindrical ceramic abrasives (Al ₂ O ₃)	Class 2 
Scratch-Test	Test to establish the hardness and adhesiveness of the coating using a diamond tip and variable loads	
Compliance with DIN-ISO 9211-4-02-02	Rapid pull off testing (~1 s) using adhesive tape 12–13 mm wide. Adhesive strength > 9.8 N per 25 mm	Class 0 "OK"

Chemical resistance

"Thermal shock" test DIN-ISO 9211-4-04-12	3× 2-minute cycles in de-mineralised water at 100 °C. 1 minute in de-mineralised water at room temperature	Class 0 "Effect only visible upon measurement"
Solubility DIN-ISO 9211-4-04-06	96 hours in a saline solution (45 g/l) at room temperature	Class 0 "Effect only visible upon measurement"
Solvent resistance DIN-ISO 9211-3-12-3 and 9022-87-04-1	1 h hour in acetone (CH ₃ COCH ₃) at room temperature	Class 0 "OK"
Resistance to ultrasound	Alkali bath (3% "Galvex") for 2 hours at 60 °C and 50 W of ultrasonic power	Class 0 "OK"
Resistance to sweat DIN-ISO 9022-86-02-1	7 days in an artificial sweat solution	Class 0 "Effect only visible upon measurement"

Resistance to climatic conditions

Cold DIN-ISO 9022-10-09-1	16 hours at -55 °C	Class 0 "OK"
Dry heat DIN-ISO 9022-11-06-1	6 hours at 85 °C with relative humidity of <40%	Class 0 "OK"

Cleaning instructions

Please observe the following instructions on how to clean glasses that have been treated with an anti-reflective coating:

– Glasses can be cleaned easily in a neutral solution using ultrasound and at temperatures of up to 60 °C.

– If cleaning by hand, we recommend wearing single-use, powder-free latex gloves and using a lint-free cloth.

– Use one of the following approved cleaning alcohols:
Ethanol with 5% isopropyl alcohol (F25-A+IPA), Alcosuisse, Bern
Ethanol Absolute A 15 O (02883), Sigma-Aldrich, Buchs SG