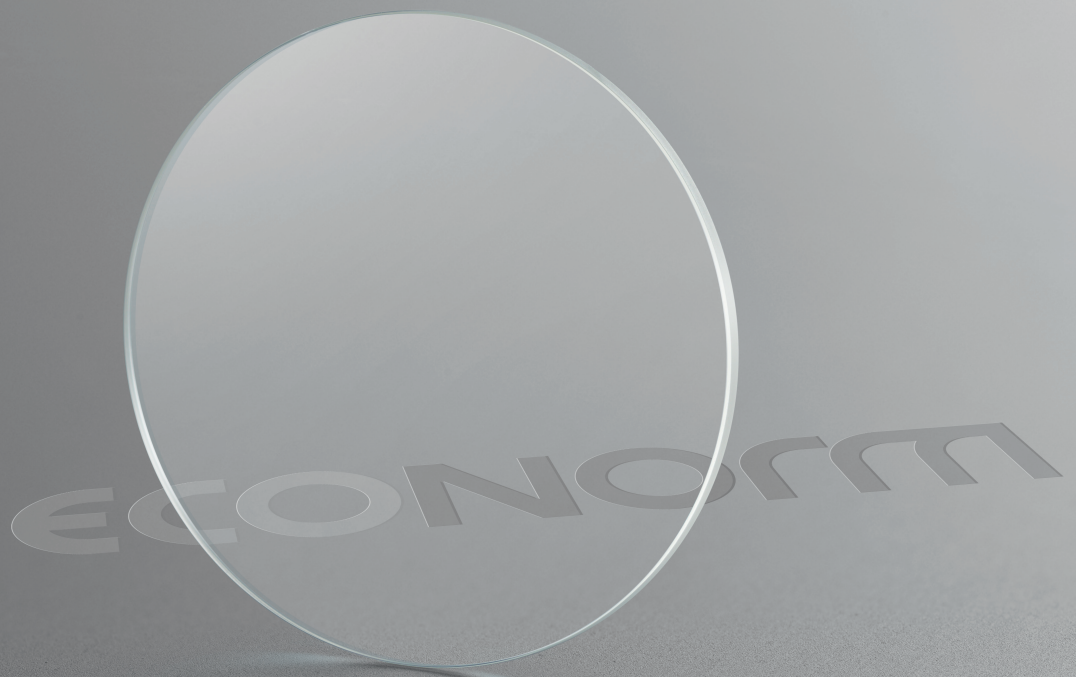
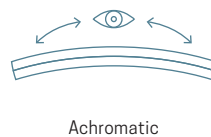
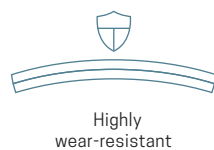
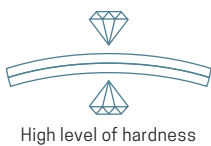


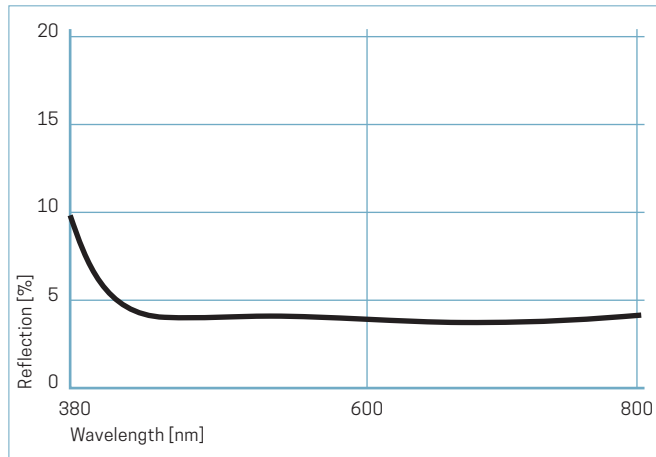
ARdur®



Colourless



Reflection curve



Product structure



Properties

Optical

| | |
|-----------------------|---|
| Reflection $\leq 3\%$ | — |
| UV filter | — |
| Achromatic | ● |

Mechanical

| | |
|-----------------------|---|
| Hard | ● |
| Highly wear-resistant | ● |
| Anti-static | ● |

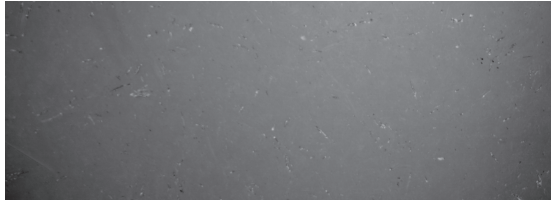
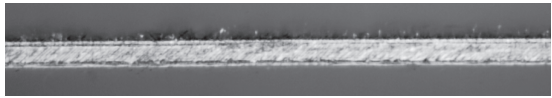
Chemical

| | |
|--------------------------|---|
| 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_2O_3) | Class 1  |
| 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 "OK" |
| Solubility DIN-ISO 9211-4-04-06 | 96 hours in a saline solution (45 g/l) at room temperature | Class 0 "OK" |
| Solvent resistance DIN-ISO 9211-3-12-3 and 9022-87-04-1 | 1 h hour in acetone (CH_3COCH_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 1 "Minimal colour change" |
| Resistance to sweat DIN-ISO 9022-86-02-1 | 7 days in an artificial sweat solution | Class 0 "OK" |

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 0 (02883), Sigma-Aldrich, Buchs SG