

EXTERIOR

SOLAR CONTROL • ARCHITECTURAL FILM

CHARCOAL 95 XC

Neutral Solar Control Film — Exterior Application, Neutral From Outside

Charcoal 95 XC films are highly effective at reducing solar glare, whilst at the same time continuing to present a neutral, reflection-free aspect .

- Rejects 43% of total solar energy for effective heat control
- Retains 6% visible light transmission
- Engineered and certified for professional exterior installation
- 99% UV rejection helps protect interiors and furnishings from fading
- Neutral finish preserves the building's original appearance

Key Strengths

**99%**

UV Rejection

**6%**Visible Light
Transmission**43%**Total Solar Energy
Rejected**93%**

Glare Reduction

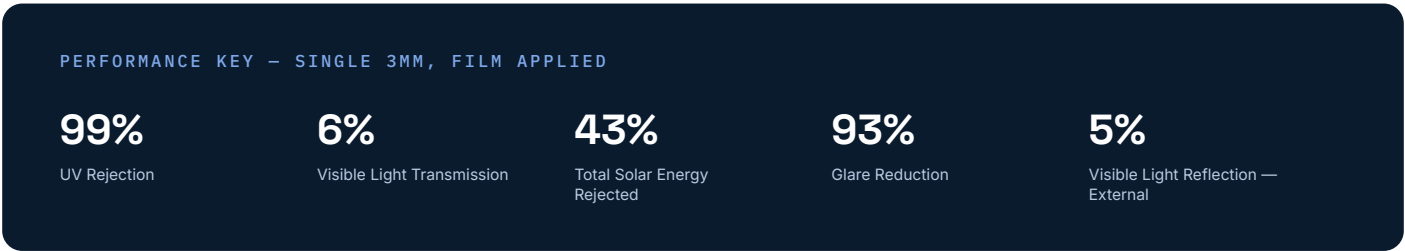
**5%**Visible Light Reflection
— External

Why Choose CHARCOAL 95 XC?

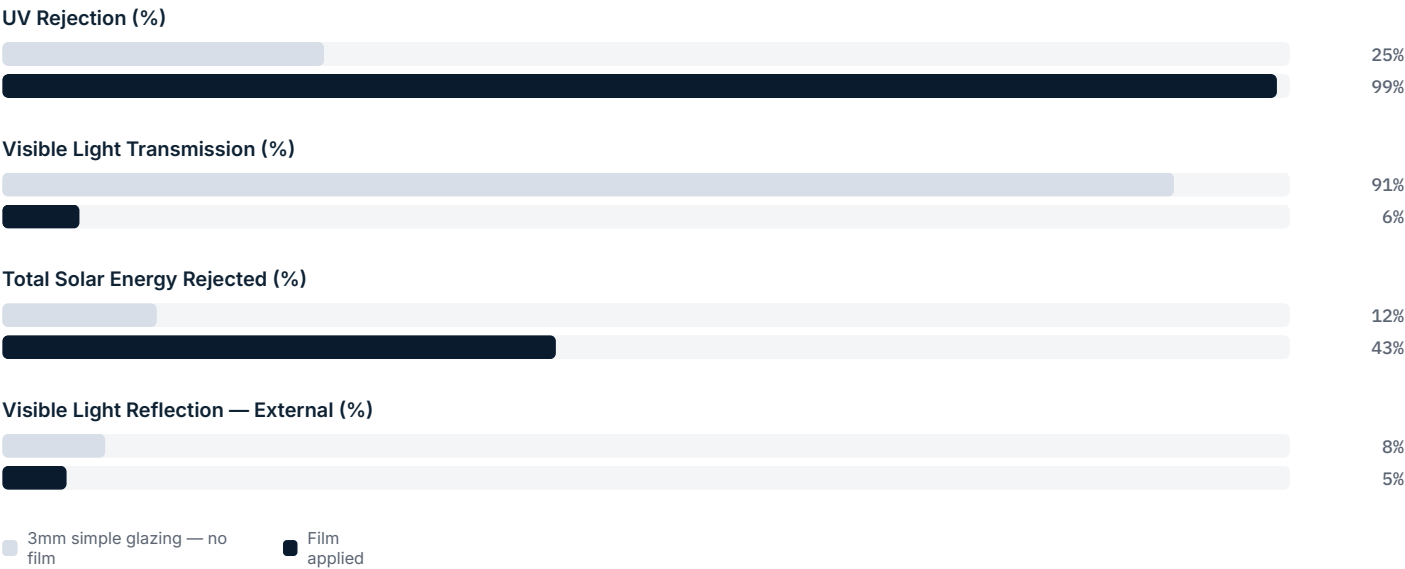
A neutral solar control film that cuts solar heat gain and glare while keeping the glazing's original appearance.

ADVANTAGES

- Rejects 43% of total solar energy
- 99% UV protection
- 6% visible light transmission retained
- 93% glare reduction, improved visual comfort
- Neutral appearance preserves the facade
- Professional exterior installation



PERFORMANCE CHARTS — NO FILM VS. FILM APPLIED



CHARACTERISTICS



Warranty
2 years



Fire Resistance Rating
M1



Storage (recommended conditions)
3 years



REACH / RoHS
Compliant



Widths Available
152 cm



Installation Type
Exterior



Color From the Outside
Black



Length
30.5 m



Product Carbon Footprint (LCA)
1.07 kgCO₂e/m²

CONSTRUCTION – PET, 30 µm

1. Scratch-resistant hard coating providing surface protection, durability, and ease of cleaning
2. High optical quality dyed polyester
3. PS adhesive, polymerizes with glass within 15 days
4. Protection PET release liner, disposable after installation

ENERGY & ENVIRONMENTAL BENEFITS



Energy Savings
61.2 kWh/m²/yr



Carbon Footprint Reduction
19.4 kgCO₂/m²



Financial Savings
14 €/m²/yr

OPTICAL & SOLAR PROPERTIES

PANE TYPE	SINGLE 3MM		DOUBLE LOW-E	
	NO FILM	WITH FILM	NO FILM	WITH FILM
UV Rejection (%)	25	99	40	99
Visible Light Transmission (%)	91	6	82	5
Visible Light Reflection — External (%)	8	5	11	5
Visible Light Reflection — Internal (%)	8	5	12	15
Solar Energy Reflection (%)	5	7	28	12
Solar Energy Absorption (%)	8	48	12	59
Solar Energy Transmission (%)	87	45	60	29
Total Solar Energy Rejected (%)	12	43	35	65
Infrared Rejection, 780–2500 nm (%)	16	92	16	96
Glare Reduction (%)	—	93	—	93
Shading Coefficient	—	0.65	—	0.4
g-value	0.88	0.57	0.65	0.35
U-value (W/m²·°C)	5.8	5.1	1.1	1.1

Values based on a study conducted on an air-conditioned building located in Luxembourg, film applied on a low-E double glazing facing East. Heating months are October to March, cooling months April to September, using an electric heat pump (efficiency 3.5) and electric cooling (efficiency 3). Data is not contractual — FNX | EVO reserves the right to modify product composition at any time; refer to our warranties and general sales conditions.

GLAZING RECOMMENDATIONS

Vertical situation, standard glazed surface up to 2.5 m².

Clear Single Pane	✓ Yes
Tinted Single Pane	! Caution
Reflective Tinted Single Pane	✓ Yes
Clear Double Pane	✓ Yes
Tinted Double Pane	! Caution
Reflective Tinted Double Pane	✓ Yes
Gas-Filled Double Pane - Low E	! Caution
Stadip Ext. Clear Double Pane	× Not recommended
Stadip Int. Clear Double Pane	! Caution

✓ Yes ! Caution × Not recommended

Advice based on glazed surface area up to 2.5 m² — contact us for confirmation or a thermal shock analysis on larger or atypical glazing.

INSTALLATION & MAINTENANCE

Use Slide On (600-F02) or Film On (600-F0355) diluted at 2 cL/L of water for installation and cleaning. Do not clean for one month after installation or apply stickers/adhesives on the film.



Learn more about FNX and our product catalog.



THERMAL COMFORT



UV PROTECTION



GLARE REDUCTION



ENERGY PERFORMANCE



SUPERIOR AESTHETICS



PROFESSIONAL INSTALL