

PREMIUM NON-METALLISED AUTOMOTIVE FILM

Charcoal Automotive Film Range

TRADE ORDERING

Supplied as 30m full rolls in 50cm, 76cm and 152cm widths. Choose the width and number of rolls required.



A premium non-metallised automotive window film range designed to give vehicles a clean charcoal appearance while reducing glare and increasing privacy. Four visible-light transmission levels allow installers to select the most suitable finish for the vehicle and application.

CHARCOAL 05**6% VLT**

94% solar-glare reduction.

CHARCOAL 20**21% VLT**

79% solar-glare reduction.

CHARCOAL 50**52% VLT**

50% solar-glare reduction.

CHARCOAL 70**67% VLT**

29% solar-glare reduction.

SUPPLY

Full rolls only

ROLL WIDTHS

50 / 76 / 152cm

CONSTRUCTION

PET film

APPLICATION

Interior

TECHNICAL COMPARISON

Performance data

Performance values differ by grade. A lower visible-light transmission value produces a darker appearance.

Performance property	Charcoal 05	Charcoal 20	Charcoal 50	Charcoal 70
Ultraviolet transmission	1%	1%	1%	1%
Visible light transmission	6%	21%	52%	67%
External visible light reflection	5%	5%	7%	6%
Internal visible light reflection	5%	5%	7%	5%
Total solar energy rejected	40%	39%	28%	32%
Total solar energy rejected* (4-16-4)	32%	30%	24%	-
Solar energy reflection	7%	6%	6%	8%
Solar energy absorption	48%	46%	31%	33%
Solar energy transmission	45%	48%	63%	59%
Reduction in solar glare	94%	79%	50%	29%
g-value	0.61	0.62	0.71	-

Reference glazing: Data is calculated from film applied to clear glass, 3mm thick. The source sheets identify the secondary solar-rejection figure with an asterisk for double glazing 4-16-4.

Product construction and supply

Product property	Charcoal 05	Charcoal 20	Charcoal 50	Charcoal 70
Installation type	Internal	Internal	Internal	Internal
Source roll length	30.5m	30.5m	30.5m	30.5m
Composition	PET	PET	PET	PET
Thickness	25 micron	25 micron	25 micron	55 micron
Colour	Black	Black	Black	Black

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GLAZING COMPATIBILITY

Installation guidance

Compatibility varies across the range. Use the matrix as a guide and complete a thermal-check analysis where required before installation.

YES**CAUTION****NO - NOT RECOMMENDED**

Glazing type	Charcoal 05	Charcoal 20	Charcoal 50	Charcoal 70
Clear single pane	YES	YES	YES	YES
Tinted single pane	CAUTION	CAUTION	CAUTION	YES
Reflective tinted single pane	NO	YES	YES	YES
Clear double pane	NO	CAUTION	YES	YES
Tinted double pane	NO	NO	CAUTION	CAUTION
Reflective tinted double pane	YES	YES	YES	YES
Gas-filled double pane - Low E	NO	CAUTION	CAUTION	YES
Laminated ext. clear double pane	NO	NO	CAUTION	YES
Laminated int. clear double pane	NO	NO	NO	CAUTION

Construction

1. Hard scratch-resistant layer for durability and easier maintenance during cleaning.
2. Dyed polyester designed to maintain optical clarity.
3. Pressure-sensitive adhesive; allow the film to bond fully after installation.
4. Protective release liner, removed and disposed of during installation.

Maintenance

Cleaning: Use a mild soapy-water solution and a soft, non-abrasive cloth or squeegee.

Initial care: Do not clean newly installed film for at least one month.

Important: Contact Window Films Direct for definitive advice or a formal thermal-check analysis for larger areas, unusual glazing or uncertain specifications.