

Sputtered Dark Bronze

N 1020 B SR CDF



Performance Data

Technical data according to EN 410 and EN 673*	4 mm single	4/16/4 mm double
Solar Energy Transmission, τ_e	14%	13%
Solar Energy Reflection, ρ_e	46%	43%
Solar Energy Absorption, α_e	40%	44%
Visible Light Transmission, T_V	21%	20%
Visible Light Reflection (External), ρ_{ve}	36%	38%
Visible Light Reflection (Internal), ρ_{vi}	33%	
Ultraviolet Transmission, τ_{UV}	<1%	
Ultraviolet Rejection	>99 %	
g value	0.22	0.35
Shading Coefficient	0.25	0.4
Total Solar Energy Rejected	78%	65%
Glare Reduction	77%	76%
U value, single glazing (W/m ² .K)	5	
U value, double glazing, Air filled (W/m ² .K)		2.52
Emissivity, ϵ_n	0.58	
Colour Rendering Index, R_a	93	94
Film Colour / Appearance	Neutral Bronze	
Installation position	Internal	
Manufacturer's Limited Warranty**: 7 Years		

Installation Notes: X-100 must not be used to install this film. Use Film On for installation.

Please check the complete Film to Glass Thermal Stress Compatibility Guidelines before film installation; Contact Eastman Performance Films for full details.

*The properties reported for LLumar architectural window films were calculated using EN410 methodology for film applied to single pane (4mm clear glass) and dual pane glazing (4mm clear glass panes, 16mm air space). Reported values were calculated from representative product samples. Actual performance may vary based on a number of factors, including glass properties, and standard manufacturing variances. Solar spectrum used: UV 300-380nm, Visible Light 380-780nm, IR 780-2500nm.

**Manufacturer's Limited Warranty validity: Europe only. Certain restrictions apply, see authorized dealer for warranty details.

Datasheet created on 20/02/19. For a more recent version please contact your LLumar representative.

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Features And Benefits



- Solar control and privacy film, bronze appearance
- Used where substantial glare and heat reduction are essential, with a warm bronze colour in transmission and reflection to match aesthetic design requirements
- Rejects up to 78% of solar energy, helping reduce heat build-up, and energy costs, increasing occupant comfort.
- Reduction of hot spots helps increase HVAC efficiency and lower energy costs
- Durable scratch-resistant coating for easy cleaning
- Shields >99% of UV radiation, helping to reduce fading of valuables, fabrics and furnishings**
- Reduces glare, which is a contributor to eye fatigue
- Interior installation