



## Performance Data

Technical data according to EN 410 and EN 673*	4 mm single	4/16/4 mm double
Solar Energy Transmission, $\tau_e$	8%	7%
Solar Energy Reflection, $\rho_e$	35%	34%
Solar Energy Absorbtion, $\alpha_e$	57%	59%
Visible Light Transmission, $T_V$	8%	7%
Visible Light Reflection (External), $\rho_{ve}$	19%	23%
Visible Light Reflection (Internal), $\rho_{vi}$	60%	
Ultraviolet Transmission, $\tau_{UV}$	<1%	
Ultraviolet Rejection	>99 %	
g value	0.2	0.4
Shading Coefficient	0.23	0.45
Total Solar Energy Rejected	80%	60%
Glare Reduction	91%	90%
U value, single glazing (W/m <sup>2</sup> .K)	5.28	
U value, double glazing, Air filled (W/m <sup>2</sup> .K)		2.59
Emissivity, $\epsilon_n$	0.67	
Colour Rendering Index, $R_a$	88	87
Film Colour / Appearance	Reflective Bronze	
Installation position	Internal	
Manufacturer's Limited Warranty**: 5 Years		

Installation Notes: 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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Solar Control & Energy Savings

# Reflective Dark Bronze

R 15 BR SR HPR

## Features And Benefits



- Solar control and privacy film, reflective bronze appearance
- Used where both high levels of heat and glare reduction are essential with optimal cost-effectiveness
- Rejects up to 80% 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