



SOLAR GARD DATA SHEETS

SLATE 10

SLATE 20

SILVER 20

STERLING 20

STERLING 40

STERLING 60

STERLING 70

SPECTRALLY SECECTIVE FILM/LX70

SILVER SHADE

Some solar films are also available in
security film thickness



RECOMMENDED USE

Commercial/Office/Home Yes
Automotive No
Safety & Security No
Clear: Float-Plate-Laminated Yes
Tinted: Float-Plate-Laminated Caution
Application Internal Only

PRODUCT SLATE 10
COLOUR SLATE
TYPE DUAL REFLECTIVE
MANUFACTURERS WARRANTY
10 YEARS INTERNAL
SCRATCH RESISTANT STANDARD
STOCK NO. SLATE 10

PRODUCT FEATURES

Heat rejection 80%
UV reduction >99%
Fade reduction 81%
Glare reduction 85%
Day time privacy Good
Night time privacy Poor
Shop front see through visibility Poor
Night time see through visibility Poor
External mirror appearance High

PHYSICAL PROPERTIES

Gauge (thickness) 2.0 mil
Tensile strength >28,000 lbs/inch²
Combustion Negligible
Melting Point 260°-265°C
Clarity Window glass

SOLAR & OPTICAL PERFORMANCE

| | Clear Glass | | Tinted Glass | |
|-----------------------------|-------------|------------|--------------|------------|
| | Glass only | Glass film | Glass only | Glass film |
| Solar Energy Rejection | 17 | 80 | 40 | |
| Shading Coefficient | .95 | .20 | .69 | |
| Solar Transmittance | 77.5 | 8 | 45.4 | |
| Solar Absorbance | 15.4 | 41 | 49.3 | |
| Solar Reflectance | 7.1 | 51 | 5.3 | |
| Visible Light Transmittance | 87.2 | 13 | 44.4 | |
| Visible Light Absorbance | 4.7 | 39 | 50.3 | |
| Visible Light Reflectance | 8.1 | 48 | 5.3 | |
| U Factor | 5.85 | 6.1 | 6.19 | |
| Emissivity | .84 | .82 | .84 | |
| UV Transmission | 95 | <1 | 23.5 | |

SLATE FILMS ARE GREAT FOR HIGH HEAT REJECTION WITH LOW INTERNAL REFLECTION





RECOMMENDED USE

Commercial/Office/Home Yes
Automotive No
Safety & Security No
Clear: Float-Plate-Laminated Yes
Tinted: Float-Plate-Laminated Caution
Application Internal Only

PRODUCT SLATE 20
COLOUR SLATE
TYPE DUAL REFLECTIVE
MANUFACTURERS WARRANTY
10 YEARS INTERNAL
SCRATCH RESISTANT STANDARD
STOCK NO. SLATE 20

PRODUCT FEATURES

Heat rejection 70%
UV reduction >99%
Fade reduction 74%
Glare reduction 75%
Day time privacy Yes
Night time privacy No
Shop front see through visibility No
Night time see through visibility No
External mirror appearance High

PHYSICAL PROPERTIES

Gauge (thickness) 2.0 mil
Tensile strength >28,000 lbs/inch²
Combustion Negligible
Melting Point 260°-265°C
Clarity Window glass

SOLAR & OPTICAL PERFORMANCE

| | Clear Glass | | Tinted Glass | |
|-----------------------------|-------------|------------|--------------|------------|
| | Glass only | Glass film | Glass only | Glass film |
| Solar Energy Rejection | 17 | 70 | 40 | |
| Shading Coefficient | .95 | .29 | .69 | |
| Solar Transmittance | 77.5 | 16 | 45.4 | |
| Solar Absorbance | 15.4 | 47 | 49.3 | |
| Solar Reflectance | 7.1 | 37 | 5.3 | |
| Visible Light Transmittance | 87.2 | 22 | 44.4 | |
| Visible Light Absorbance | 4.7 | 47 | 50.3 | |
| Visible Light Reflectance | 8.1 | 31 | 5.3 | |
| U Factor | 5.85 | 6.3 | 6.19 | |
| Emissivity | .84 | .84 | .84 | |
| UV Transmission | 95 | <1 | 23.5 | |

SLATE FILMS ARE GREAT FOR HIGH HEAT REJECTION WITH LOW INTERNAL REFLECTION



RECOMMENDED USE

Commercial/Office/Home Yes
Automotive No
Safety & Security No
Clear: Float-Plate-Laminated Yes
Tinted: Float-Plate-Laminated Caution
Application Internal & External

PRODUCT FEATURES

Heat rejection 81%
UV reduction >99%
Fade reduction 79%
Glare reduction 80%
Day time privacy Excellent
Night time privacy Poor
Shop front see through visibility Poor
Night time see through visibility Poor
External mirror appearance High

PHYSICAL PROPERTIES

Gauge (thickness) 1.5 mil
Tensile strength >28,000 lbs/inch²
Combustion Negligible
Melting Point 260°-265°C
Clarity Window glass

PRODUCT SILVER 20
COLOUR SILVER
TYPE PREMIUM SPUTTERED
MANUFACTURERS WARRANTY
10 YEARS INTERNAL/2 YEARS EXTERNAL
SCRATCH RESISTANT STANDARD
STOCK NO. SILVER 80

Similar films are available with warranties when film is applied externally

SOLAR & OPTICAL PERFORMANCE

| | Clear Glass | | Tinted Glass | |
|-----------------------------|-------------|------------|--------------|------------|
| | Glass only | Glass film | Glass only | Glass film |
| Solar Energy Rejection | 17 | 81 | 40 | |
| Shading Coefficient | .95 | .22 | .69 | |
| Solar Transmittance | 77.5 | 12 | 45.4 | |
| Solar Absorbance | 15.4 | 38 | 49.3 | |
| Solar Reflectance | 7.1 | 50 | 5.3 | |
| Visible Light Transmittance | 87.2 | 18 | 44.4 | |
| Visible Light Absorbance | 4.7 | 28 | 50.3 | |
| Visible Light Reflectance | 8.1 | 54 | 5.3 | |
| U Factor | 5.85 | 5.74 | 6.19 | |
| Emissivity | .84 | .68 | .84 | |
| UV Transmission | 95 | <1 | 23.5 | |

THE HIGHEST HEAT REJECTION FILM IN THE WORLD



RECOMMENDED USE

Commercial/Office/Home Yes
 Automotive No
 Safety & Security No
 Clear: Float-Plate-Laminated Yes
 Tinted: Float-Plate-Laminated Caution
 Application Internal only

PRODUCT FEATURES

Heat rejection 75%
 UV reduction >99%
 Fade reduction 78%
 Glare reduction 74%
 Day time privacy Good
 Night time privacy Poor
 Shop front see through visibility Poor
 Night time see through visibility Poor
 External mirror appearance High

PHYSICAL PROPERTIES

Gauge (thickness) 2.0 mil
 Tensile strength >28,000 lbs/inch²
 Combustion Negligible
 Melting Point 260°-265°C
 Clarity Window glass

PRODUCT STERLING 20
COLOUR NEUTRAL
TYPE STERLING
MANUFACTURERS WARRANTY
10 YEARS INTERNAL USE
SCRATCH RESISTANT STANDARD
STOCK NO. STERLING 20

SOLAR & OPTICAL PERFORMANCE

| | Clear Glass | | Tinted Glass | |
|-----------------------------|-------------|------------|--------------|------------|
| | Glass only | Glass film | Glass only | Glass film |
| Solar Energy Rejection | 17 | 75 | 40 | |
| Shading Coefficient | .95 | .29 | .69 | |
| Solar Transmittance | 77.5 | 14 | 45.4 | |
| Solar Absorbance | 15.4 | 45 | 49.3 | |
| Solar Reflectance | 7.1 | 41 | 5.3 | |
| Visible Light Transmittance | 87.2 | 22 | 44.4 | |
| Visible Light Absorbance | 4.7 | 34 | 50.3 | |
| Visible Light Reflectance | 8.1 | 44 | 5.3 | |
| U Factor | 5.85 | 5.68 | 6.19 | |
| Emissivity | .84 | .67 | .75 | |
| UV Transmission | 95 | <1 | 23.5 | |



RECOMMENDED USE

Commercial/Office/Home Yes
 Automotive No
 Safety & Security No
 Clear: Float-Plate-Laminated Yes
 Tinted: Float-Plate-Laminated Yes
 Application Internal only

PRODUCT FEATURES

Heat rejection 63%
 UV reduction >99%
 Fade reduction 70%
 Glare reduction 54%
 Day time privacy Good
 Night time privacy Poor
 Shop front see through visibility Poor
 Night time see through visibility Poor
 External mirror appearance High

PHYSICAL PROPERTIES

Gauge (thickness) 2.0 mil
 Tensile strength >28,000 lbs/inch²
 Combustion Negligible
 Melting Point 260°-265°C
 Clarity Window glass

PRODUCT **STERLING 40**
 COLOUR **NEUTRAL**
 TYPE **STERLING**
 MANUFACTURERS WARRANTY
10 YEARS INTERNAL USE
 SCRATCH RESISTANT **STANDARD**
 STOCK NO. **STERLING 40**

SOLAR & OPTICAL PERFORMANCE

|  WINDOW ENERGY RATING | Clear Glass | | Tinted Glass | |
|------------------------------------------------------------------------------------------------------------------|-------------|------------|--------------|------------|
| | Glass only | Glass film | Glass only | Glass film |
| Solar Energy Rejection | 17 | 63 | 40 | |
| Shading Coefficient | .95 | .42 | .69 | |
| Solar Transmittance | 77.5 | 26 | 45.4 | |
| Solar Absorbance | 15.4 | 41 | 49.3 | |
| Solar Reflectance | 7.1 | 33 | 5.3 | |
| Visible Light Transmittance | 87.2 | 40 | 44.4 | |
| Visible Light Absorbance | 4.7 | 28 | 50.3 | |
| Visible Light Reflectance | 8.1 | 32 | 5.3 | |
| U Factor | 5.85 | 5.68 | 6.19 | |
| Emissivity | .84 | .68 | .75 | |
| UV Transmission | 95 | <1 | 23.5 | |



RECOMMENDED USE

Commercial/Office/Home Yes
 Automotive No
 Safety & Security No
 Clear: Float-Plate-Laminated Yes
 Tinted: Float-Plate-Laminated Yes
 Application Internal only

PRODUCT FEATURES


Heat rejection 54%
 UV reduction >99%
 Fade reduction 65%
 Glare reduction 40%
 Day time privacy Poor
 Night time privacy Poor
 Shop front see through visibility Excellent
 Night time see through visibility Excellent
 External mirror appearance Medium

PHYSICAL PROPERTIES

Gauge (thickness) 2.0 mil
 Tensile strength >28,000 lbs/inch²
 Combustion Negligible
 Melting Point 260°-265°C
 Clarity Window glass

PRODUCT STERLING 60
COLOUR NEUTRAL
TYPE HILITE
MANUFACTURERS WARRANTY
10 YEARS INTERNAL USE
SCRATCH RESISTANT STANDARD
STOCK NO. STERLING 60

SOLAR & OPTICAL PERFORMANCE

|  WINDOW ENERGY RATING | Clear Glass | | Tinted Glass | |
|------------------------------------------------------------------------------------------------------------------|-------------|------------|--------------|------------|
| | Glass only | Glass film | Glass only | Glass film |
| Solar Energy Rejection | 17 | 54 | 40 | |
| Shading Coefficient | .95 | .53 | .69 | |
| Solar Transmittance | 77.5 | 35 | 45.4 | |
| Solar Absorbance | 15.4 | 39 | 49.3 | |
| Solar Reflectance | 7.1 | 26 | 5.3 | |
| Visible Light Transmittance | 87.2 | 52 | 44.4 | |
| Visible Light Absorbance | 4.7 | 25 | 50.3 | |
| Visible Light Reflectance | 8.1 | 23 | 5.3 | |
| U Factor | 5.85 | 5.79 | 6.19 | |
| Emissivity | .84 | .72 | .75 | |
| UV Transmission | 95 | <1 | 23.5 | |



RECOMMENDED USE

Commercial/Office/Home Yes
Automotive No
Safety & Security No
Clear: Float-Plate-Laminated Yes
Tinted: Float-Plate-Laminated Yes
Application Internal only

PRODUCT FEATURES

Heat rejection 39%
UV reduction >99%
Fade reduction 57%
Glare reduction 22%
Day time privacy Poor
Night time privacy Poor
Shop front see through visibility Excellent
Night time see through visibility Excellent
External mirror appearance Low/Medium

PHYSICAL PROPERTIES

Gauge (thickness) 2.0 mil
Tensile strength >28,000 lbs/inch²
Combustion Negligible
Melting Point 260°-265°C
Clarity Window glass

PRODUCT STERLING 70
COLOUR NEUTRAL
TYPE HILITE
MANUFACTURERS WARRANTY
10 YEARS INTERNAL USE
SCRATCH RESISTANT STANDARD
STOCK NO. STERLING 70

SOLAR & OPTICAL PERFORMANCE

| sign fx CORPORATE SIGNAGE AND GLASS FILM SPECIALISTS | Clear Glass | | Tinted Glass | |
|---------------------------------------------------------|-------------|------------|--------------|------------|
| | Glass only | Glass film | Glass only | Glass film |
| Solar Energy Rejection | 17 | 39 | 40 | |
| Shading Coefficient | .95 | .70 | .69 | |
| Solar Transmittance | 77.5 | 52 | 45.4 | |
| Solar Absorbance | 15.4 | 33 | 49.3 | |
| Solar Reflectance | 7.1 | 15 | 5.3 | |
| Visible Light Transmittance | 87.2 | 68 | 44.4 | |
| Visible Light Absorbance | 4.7 | 19 | 50.3 | |
| Visible Light Reflectance | 8.1 | 13 | 5.3 | |
| U Factor | 5.85 | 5.85 | 6.19 | |
| Emissivity | .84 | .75 | .75 | |
| UV Transmission | 95 | <1 | 23.5 | |



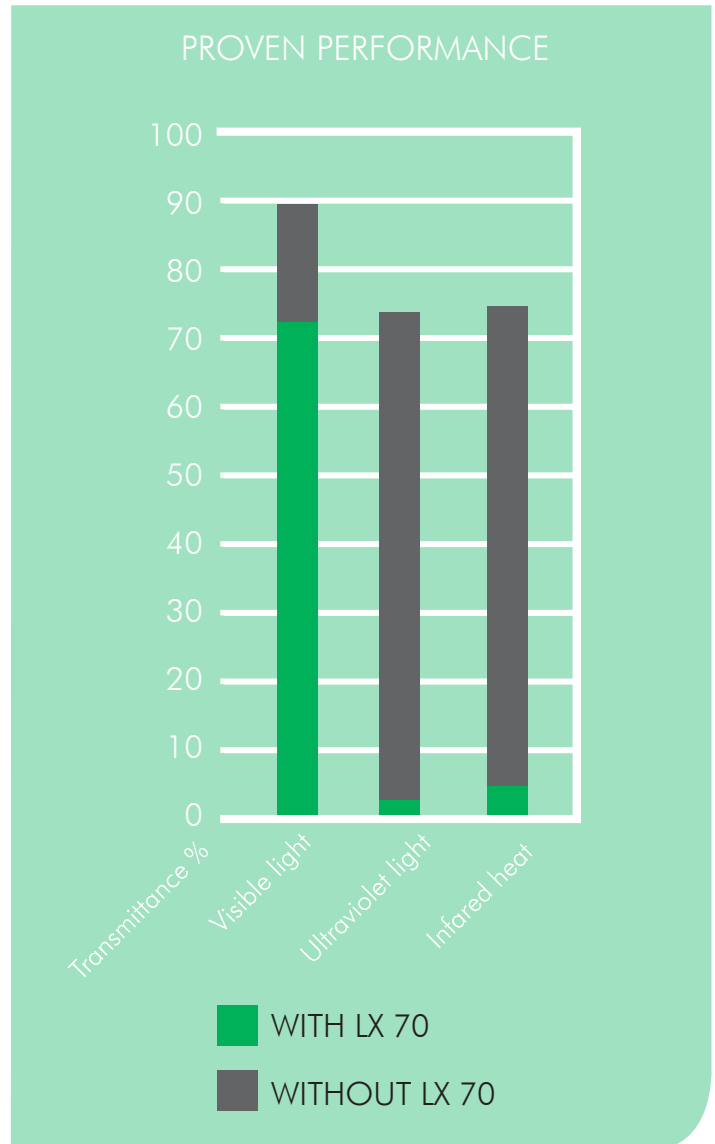


PERFORMANCE RESULTS

| | 1/8" 3mm | 1/4" 6mm |
|----------------------------------------|-------------|-------------|
| Solar transmittance (%) | 37 | 35 |
| Solar absorbance (%) | 28 | 36 |
| Solar reflectance (%) | 35 | 29 |
| Visible light transmittance (%) | 72 | 71 |
| Visible light absorbance (%) | 19 | 20 |
| Visible light reflectance/exterior (%) | 9 | 9 |
| Visible light reflectance/interior (%) | 9 | 9 |
| Emissivity | 0.77 | 0.77 |
| U value/summer | 5.11 | 5.05 |
| U value/winter | 5.68 | 5.62 |
| Shading coefficient | 0.52 | 0.53 |
| Solar heat gain coefficient | 0.45 | 0.46 |
| Solar Selectivity Index (L/E value) | 1.39 | 1.34 |
| Light to solar gain | 1.60 | 1.54 |
| % Ultraviolet blocked | 99 | 99 |
| % Total solar energy rejected | 55 | 54 |
| % Infrared reduction | 95 | 95 |

PHYSICAL PROPERTIES NOMINAL

| | |
|--------------------------|----------------------------------------------------------|
| Gauge (thickness) | 3.0 mil/75 micron |
| Peel strength | 2,500 g/in (>984 g/cm) |
| Tensile strength | >28,000 lb/inch ² (2,000 kg/cm ²) |
| Break strength | 84 lbs/in (15 kg/cm) |
| Elongation at break | >120% |
| Combustion rate | Negligible |
| Melting point | 260°-265°C |
| ASTM D4830 Puncture Test | 51 lbs (23 kg) |



LOW INTERNAL REFLECTION SUITABLE FOR ROOMS WITH MAGNIFICENT VIEWS





RECOMMENDED USE

- Commercial/Office/Home Yes
- Automotive No
- Safety & Security No
- Polycarbonate Yes
- Clear: Float-Plate-Laminated Yes
- Tinted: Float-Plate-Laminated Caution
- Application Internal Only

PRODUCT SILVER SHADE
COLOUR SILVER
TYPE VINYL
MANUFACTURERS WARRANTY
10 YEARS INTERNAL/5 YEARS EXTERNAL
SCRATCH RESISTANT STANDARD

PRODUCT FEATURES

- Heat rejection 69%
- UV reduction >99%
- Fade reduction 76%
- Glare reduction 71%
- Day time privacy Good
- Night time privacy Good
- Shop front see through visibility Poor
- Night time see through visibility Poor
- External mirror appearance High

SOLAR & OPTICAL PERFORMANCE

| | Clear Glass | | Tinted Glass | |
|-----------------------------|-------------|------------|--------------|------------|
| | Glass only | Glass film | Glass only | Glass film |
| Solar Energy Rejection | 17 | 63 | | 69 |
| Shading Coefficient | .95 | .42 | | .36 |
| Solar Transmittance | 77.5 | 22 | | 20 |
| Solar Absorbance | 15.4 | 45 | | 47 |
| Solar Reflectance | 7.1 | 33 | | 33 |
| Visible Light Transmittance | 87.2 | 25 | | 22 |
| Visible Light Absorbance | 4.7 | 36 | | 43 |
| Visible Light Reflectance | 8.1 | 39 | | 35 |
| U Factor | 5.85 | 5.62 | | 5.17 |
| Emissivity | .84 | 79 | | 74 |
| UV Transmission | 95 | <1 | | <1 |

GIVE GLASS ROOFS 24 HOUR PRIVACY WITH HEAT REJECTION QUALITIES

