

FILM
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Interior Side

Benefits and selection criteria

- Helps hold shattered glass together should a break occur
- Helps slow down entry through glass
- Pressure-sensitive adhesive has a low visual distortion that provides optical clarity
- Most often used to help hold shattered glass in place during human impact, an earthquake or in the event of spontaneous tempered glass breakage
- Provides good reduction of heat and glare with low interior and exterior reflectance
- Shields >99% of UV radiation, helping to reduce fading of valuables, fabrics and furnishings**
- Please see LLumar.com for recommendations and test results for specific glass and frame types



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Exterior Side

Performance Data

| | % Total Solar Transmittance | % Total Solar Reflectance | % Total Solar Absorbance | % Visible Light Transmittance | % Visible Reflectance (exterior) | % Visible Reflectance (interior) | Winter U-value | Shading Coefficient | % Ultraviolet Ray Protection (wavelengths 300-380nm) | Emissivity | Solar Heat Gain Coefficient | % Total Solar Energy Reflected | Light-to-Solar Heat Gain Ratio (LSG) | % Summer Solar Heat Gain Reduction | % Winter Heat Loss Reduction | % Glare Reduction |
|--|-----------------------------|---------------------------|--------------------------|-------------------------------|----------------------------------|----------------------------------|----------------|---------------------|--|------------|-----------------------------|--------------------------------|--------------------------------------|------------------------------------|------------------------------|-------------------|
| Clear Glass 1/8" (3mm) single pane | 83 | 8 | 9 | 90 | 8 | 8 | 1.03 | 1.00 | 29 | 0.84 | 0.86 | 14 | 1.05 | - | - | - |
| N1040 SR PS4 1/8" (3mm) single pane | 38 | 14 | 48 | 39 | 16 | 17 | 1.06 | 0.61 | >99 | 0.90 | 0.53 | 47 | 0.74 | 38 | -2 | 57 |

Physical Properties

| | Film Thickness (inches) | Appearance | Film Structure | Tensile Strength (constructed) | Tensile Strength (average as reported) | Break Strength (peak load) | Break Strength (average load) | Elongation at Break | Peel Strength | Puncture Strength |
|--------------|-------------------------|----------------|----------------|--------------------------------|--|----------------------------|-------------------------------|---------------------|---------------|-------------------|
| N1040 SR PS4 | 0.004 | Medium Neutral | Multi | 33,884 | 32,000 | 120 | 119 | >100% | >2720 (>6) | 78 |

The solar performance data reported for LLumar architectural window films was captured using the National Fenestration Rating Council's (NFRC) standard guidelines for window film solar performance measurement. All safety and performance data has been measured in accordance with ASTM, ASHRAE, AIMCAL and ANSI standards using NFRC methodology with Lawrence Berkeley National Lab's WINDOW Fenestration Analysis Software. Reported values are taken from representative product samples and are subject to normal manufacturing variances. Actual performance will vary based on a number of factors, including glass type and properties.