



AUTOMOTIVE FILM SPECIFICATIONS on 1/4" Clear Glass



All of Johnson Automotive Window Films reject 99% or more of harmful UV rays.

| FILM TYPE | VISIBLE LIGHT TRANSMISSION | SOLAR ENERGY REJECTION | VISIBLE LIGHT REFLECTANCE | SHADING COEFFICIENT | SOLAR HEAT GAIN COEFFICIENT | GLARE REDUCTION |
|-------------|----------------------------|------------------------|---------------------------|---------------------|-----------------------------|-----------------|
| CLEAR GLASS | 88% | 18% | 8% | 0.94 | 0.82 | 0% |

InsulatIR
SUPERIOR INFRARED REJECTION

| | | | | | | |
|-------|-----|-----|----|------|------|-----|
| IR 85 | 82% | 31% | 9% | 0.78 | 0.69 | 7% |
| IR 80 | 76% | 42% | 8% | 0.67 | 0.58 | 14% |
| IR 70 | 65% | 50% | 7% | 0.56 | 0.50 | 26% |
| IR 45 | 43% | 46% | 6% | 0.61 | 0.54 | 51% |
| IR 35 | 33% | 50% | 6% | 0.58 | 0.50 | 63% |
| IR 20 | 17% | 54% | 5% | 0.52 | 0.46 | 81% |

IR REJECTION

| | |
|-----|-----|
| 56% | 64% |
| 84% | 84% |
| 95% | 95% |
| 67% | 73% |
| 67% | 73% |
| 68% | 74% |

NIR: 780-2500nm range
900-1000nm range

RENEGADE
UNIVERSAL BLACK NON-REFLECTIVE FILMS

| | | | | | | |
|-------|-----|-----|----|------|------|-----|
| RN 50 | 51% | 31% | 7% | 0.80 | 0.69 | 42% |
| RN 35 | 35% | 35% | 6% | 0.76 | 0.65 | 60% |
| RN 20 | 21% | 39% | 5% | 0.71 | 0.61 | 76% |
| RN 05 | 6% | 43% | 5% | 0.66 | 0.56 | 93% |

MARATHON
UNIVERSAL BLACK HIGH-PERFORMANCE FILMS

| | | | | | | |
|-------|-----|-----|----|------|------|-----|
| MN 45 | 46% | 42% | 8% | 0.67 | 0.58 | 48% |
| MN 35 | 37% | 43% | 7% | 0.66 | 0.57 | 58% |
| MN 30 | 30% | 45% | 6% | 0.64 | 0.55 | 66% |
| MN 20 | 20% | 49% | 5% | 0.58 | 0.50 | 77% |
| MN 15 | 12% | 58% | 5% | 0.49 | 0.42 | 86% |
| MN 05 | 5% | 60% | 6% | 0.47 | 0.40 | 94% |

RAGE
DEFY THE SUN

| | | | | | | |
|---------|-----|-----|----|------|------|-----|
| RAGE 50 | 51% | 30% | 7% | 0.80 | 0.70 | 42% |
| RAGE 43 | 42% | 33% | 6% | 0.77 | 0.67 | 52% |
| RAGE 35 | 35% | 35% | 5% | 0.75 | 0.65 | 60% |
| RAGE 20 | 20% | 40% | 5% | 0.70 | 0.60 | 77% |
| RAGE 15 | 15% | 41% | 5% | 0.68 | 0.59 | 83% |
| RAGE 05 | 6% | 43% | 5% | 0.68 | 0.57 | 93% |



Recommended as an effective UV protectant.

All Johnson Window Films are protected by CST™ scratch resistant hardcoat.

Laws governing automotive window tinting are strictly enforced. Please stay within legal boundaries.

Solar specifications represent film mounted to 1/4" (6mm) clear glass.

Tests, equipment and methods according to ASTM, ANSI and NFRC standards. Calculations performed using Lawrence Berkeley Lab's Optics/Window 6. Values expressed hereof are typical and provided for comparative purposes only.



Johnson Window Films

Manufactured by Johnson Laminating & Coating, Inc.
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www.johnsonwindowfilms.com