

MANTA CERAMIC SERIES

WINDOW FILM SPECIFICATIONS



| Manta Series | Thickness | Visible Light Transmission | Visible Light Reflection | Total Solar Energy Rejection(TSER) | IR Energy Rejection (*IRER) | Selective IR Rejection(**SIRR) | UV Rejection | Glare Reduction |
|--------------|-----------|----------------------------|--------------------------|------------------------------------|-----------------------------|--------------------------------|--------------|-----------------|
| Manta C70 | 2 mil | 72% | 8% | 46% | 68% | 84% | 99% | 20% |
| Manta C55 | 2 mil | 54% | 7% | 55% | 75% | 92% | 99% | 42% |
| Manta C45 | 2 mil | 47% | 7% | 58% | 74% | 94% | 99% | 48% |
| Manta C35 | 2 mil | 38% | 6% | 59% | 73% | 90% | 99% | 58% |
| Manta C20 | 2 mil | 20% | 6% | 68% | 75% | 96% | 99% | 78% |
| Manta C05 | 2 mil | 6% | 5% | 72% | 73% | 95% | 99% | 94% |

All performance data gathered using a Shimadzu UV3600 UV/Vis/NIR Spectrophotometer with films applied to 1/8" (3mm) glass plates. All values represented are with film applied on 1/8" (3mm) glass. *IRER is a more complete measurement of heat experienced from solar infrared radiation (780-2500nm) including absorbed and re-radiated energy. **SIRR is a measurement of solar infrared radiation (780-2500nm) not directly transmitted through glass. Product performance tolerances for visible light, solar energy, UV rejection and IR rejection values are +/- 3%. Product thickness values are nominal and for guidance only. 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. All rights reserved. No liability is accepted for errors. Further information can be found at www.uppf-usa.com. For any additional information contact info@uppf-usa.com.

