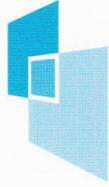


HÜPER OPTIK®
Nano-Ceramic Window Films



The Smarter Choice:
**Nano-Ceramic Security
Films**

Physical Properties

- Film thickness...(.008")
- Structure...Multi-ply laminate
- Tensile strength...29,000 PSI
- Puncture test...140 LBS Average
- Adhesive type...Acrylic pressure sensitive
- Peel strength...5-6 LBS/Inch
- Impact test...ANSI Z97.1



HÜPER CERAMIC 50 SHIELD-8

Visible Light Transmission (%)	50
Visible Light Reflectance (%)	10
Shading Coefficient	0.61
Total Solar Transmission (%)	42
Infrared Rejection (%)	68
UV Light Rejection (%)	99.9
Total Solar Energy Rejected (%)	50
Glare Reduction (%)	45
Solar Heat Gain Coefficient	.53

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INDUSTRY PARTNER



Performance data is based on this film being applied to the inside of 3mm clear glass. All data calculated using the definitions and equations in ISO9050 & ASHARE Handbook. The data is subject to variations within industry standards.
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HSPE-8C50



Meister Keramische Technologie