



## ARMORCOAT DATA SHEETS

### bomb blast film

200 MICRON CLEAR

200 MICRON STAINLESS STEEL 35

200 MICRON SILVER

275 MICRON CLEAR

350 MICRON CLEAR 3PLY

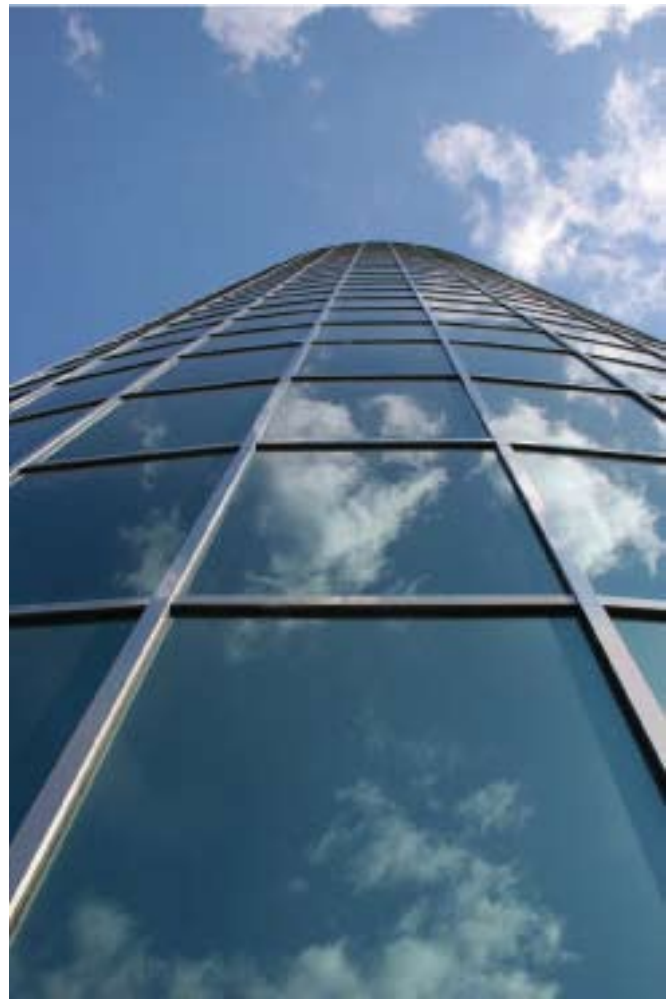
Some safety and security films are also available as tinted films

PERFORMANCE RESULTS

	1/8" 3mm	1/4" 6mm
Solar transmittance (%)	82	69
Solar absorbance (%)	9	21
Solar reflectance (%)	9	10
Visible light transmittance (%)	89	83
Visible light absorbance (%)	1	4
Visible light reflectance/exterior (%)	10	13
Visible light reflectance/interior (%)	10	12
Emissivity	.89	.88
U value/summer	1.06	1.06
U value/winter	1.13	1.11
Shading coefficient	.98	.87
Solar heat gain coefficient	.84	.74
Total solar energy rejected (%)	15	24
Ultraviolet transmittance (%) 300-380 nanometers	<2	<2

PHYSICAL PROPERTIES NOMINAL

Gauge (thickness)	9.0 mil/200 micron
Peel strength	3200 g/in (1280 g/cm)
Tensile strength	>28000 lbs/inch <sup>2</sup> (2000 kg/cm <sup>2</sup> )
Break strength	224 lbs/in (88 kg/cm)
Elongation at break	170%
Combustion rate	Negligible
Melting point	260° - 265°C
ASTM D4830 Puncture Test	141 lbs (64 kg)



All performance results values are based on the film installed on the inside surface of 1/8" (3mm) and 1/4" (6mm) thick, clear glass.

Bekaert Speciality Films, LLC is a participating member of AIMCAL, the Association of Industrial Metallizers, Coaters and Laminators. All data reported on performance results has been tested using ASHAE, ASTM, IWFA and AIMCAL, calculations and test procedures. Performance results are subject to variations within industry standards and only intended for estimating purposes.



PERFORMANCE RESULTS	1/8" 3mm	1/4" 6mm
Solar transmittance (%)	34	32
Solar absorbance (%)	52	56
Solar reflectance (%)	14	12
Visible light transmittance (%)	38	38
Visible light absorbance (%)	46	46
Visible light reflectance/exterior (%)	16	16
Visible light reflectance/interior (%)	13	13
Emissivity	.88	.88
U value/summer	1.14	1.12
U value/winter	1.13	1.11
Shading coefficient	.57	.55
Solar heat gain coefficient	.49	.48
Total solar energy rejected (%)	50	52
Ultraviolet transmittance (%) 300-380 nanometers	<2	<2

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#### PHYSICAL PROPERTIES NOMINAL

Gauge (thickness)	9.0 mil/200 micron
Peel strength	3200 g/in (1280 g/cm)
Tensile strength	>28000 lbs/inch <sup>2</sup> (2000 kg/cm <sup>2</sup> )
Break strength	224 lbs/in (88 kg/cm)
Elongation at break	170%
Combustion rate	Negligible
Melting point	260° - 265°C
ASTM D4830 Puncture Test	141 lbs (64 kg)





## PERFORMANCE RESULTS

	1/8" 3mm	1/4" 6mm
Solar transmittance (%)	10	9
Solar absorbance (%)	39	47
Solar reflectance (%)	51	44
Visible light transmittance (%)	14	14
Visible light absorbance (%)	28	30
Visible light reflectance/exterior (%)	58	56
Visible light reflectance/interior (%)	59	57
Emissivity	.70	.70
U value/summer	1.02	1.02
U value/winter	1.04	1.02
Shading coefficient	.24	.25
Solar heat gain coefficient	.20	.21
Total solar energy rejected (%)	79	78
Ultraviolet transmittance (%) 300-380 nanometers	<2	<2

## PHYSICAL PROPERTIES NOMINAL

Gauge (thickness)	9.0 mil/200 micron
Peel strength	3200 g/in (1280 g/cm)
Tensile strength	>28000 lb/inch <sup>2</sup> (2000 kg/cm <sup>2</sup> )
Break strength	224 lbs/in (88 kg/cm)
Elongation at break	170%
Combustion rate	Negligible
Melting point	260° - 265°C
ASTM D4830 Puncture Test	141 lbs (64kg)

All performance results values are based on the film installed on the inside surface of 1/8" (3mm) and 1/4" (6mm) thick, clear glass.

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PERFORMANCE RESULTS	1/8" 3mm	1/4" 6mm
Solar transmittance (%)	78	72
Solar absorbance (%)	13	20
Solar reflectance (%)	9	8
Visible light transmittance (%)	88	86
Visible light absorbance (%)	2	4
Visible light reflectance/exterior (%)	10	10
Visible light reflectance/interior (%)	10	10
Emissivity	.89	.89
U value/summer	1.07	1.06
U value/winter	1.13	1.11
Shading coefficient	.95	.90
Solar heat gain coefficient	.82	.77
Total solar energy rejected (%)	17	22
Ultraviolet transmittance (%) 300-380 nanometers	<2	<2

## PHYSICAL PROPERTIES NOMINAL

Gauge (thickness)	12.0 mil/275 micron
Peel strength	3200 g/in (1280 g/cm)
Tensile strength	>28000 lb/inch <sup>2</sup> (2000 kg/cm <sup>2</sup> )
Break strength	308 lbs/in (121 kg/cm)
Elongation at break	175%
Combustion rate	Negligible
Melting point	260° - 265°C
ASTM D4830 Puncture Test	198 lbs (89 kg)

All performance results values are based on the film installed on the inside surface of 1/8" (3mm) and 1/4" (6mm) thick, clear glass.

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## PERFORMANCE RESULTS

	1/8" 3mm	1/4" 6mm
Solar transmittance (%)	76	71
Solar absorbance (%)	15	21
Solar reflectance (%)	9	8
Visible light transmittance (%)	87	85
Visible light absorbance (%)	2	5
Visible light reflectance/exterior (%)	11	10
Visible light reflectance/interior (%)	11	11
Emissivity	.89	.89
U value/summer	1.07	1.06
U value/winter	1.13	1.11
Shading coefficient	.93	.89
Solar heat gain coefficient	.80	.76
Total solar energy rejected (%)	19	23
Ultraviolet transmittance (%) 300-380 nanometers	<2	<22

## PHYSICAL PROPERTIES NOMINAL

Gauge (thickness)	15.0 mil/350 micron
Peel strength	3200 g/in (1280 g/cm)
Tensile strength	>28,000 lbs/inch <sup>2</sup> (2000 kg/cm <sup>2</sup> )
Break strength	392 lbs/in (154 kg/cm)
Elongation at break	175%
Combustion rate	Negligible
Melting point	260° - 265°C
ASTM D4830 Puncture Test	230 lbs (104 kg)



Major television network located in the CBD - 800m<sup>2</sup> of 350 micron security film

