

IR Blocker 40™ and IR Blocker 40 Plus™



Applications

- Digital Information Displays (DID)
- Outdoor / Drive-Thru Menu Boards
- Ruggedized displays

Key Features

- Passive NIR reflection for low solar heat gain
- Excellent viewability / and neutral CRI
- · Reduces mechanical cooling cost
- Heat treatable per ASTM C 1048-97b (Kind HS)
- Outstanding reliability and durability
- Low field maintenance cost
- Custom sizes and thicknesses available

Available Sizes

Thickness (mm)	3.0	4.0	5.0	6.0
Size (in)	32" x 50"	32" x 50"	32" x 50.7"	32" x 50"
Size (mm)	812.8 x 1270	812.8 x 1270	812.8 x 1288	812.8 x 1270

Environmental and Durability

• Humidity Resistance

24 hour RH per paragraph 4.5.8 of MIL-C-675C.

• Abrasion Resistance

20 eraser rub per paragraph 4.5.10 of MIL-C-675

• Coating Adhesion

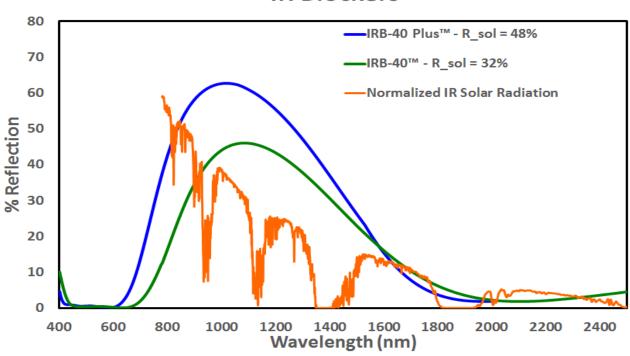
"Snap tape" per paragraph 4.5.12 of MIL-C-675C.

Salt Solubility

24 hours per paragraph 4.5.7 of MIL-C-675C.

Spectral Performance





Performance and Operating Characteristics

CONFIGURATION	Reflected Brightness (Overall in Air)	Reflected Color	Visible Transmittance	Nominal Peak %R	IR Reflection Peak λ	R,solar thermal*	Solar Heat Gain (SHGC)
IRB-40™	Y < 0.7% *	a* = 0 to 20 b* = -5 to -27	93.0%	42%	1075 nm	32%	0.754
IRB-40 PLUS™	Y < 1.4%	a* = 5 to 35 b* = -10 to -40	97.0%	57%	1025 nm	48%	0.705
IRB-40 PLUS IM™	Y < 1.6%	a* = 5 to 50 b* = -15 to -45	96.8%	54%	1050 nm	43%	0.723
IRB-40™ ● HEA®	Y < 0.9%	a* = -3 to 30 b* = -5 to -35	97.5%	46%	1075 nm	36%	0.767

^{*} IRB-40™ reflected brightness of coated surface (second surface not included)

Performance properties based on 5mm clear soda lime float glass

R,solar thermal is defined as the integrated reflectance of the solar energy from 780nm to 2500nm. (Ref. ISO 9050)

For ordering or additional product information, please contact us at www.macthinfilms.com

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