

IR Blocker 40™ and IR Blocker 40 Plus™



Applications

- Digital Information Displays (DID)
- Outdoor kiosks
- Point-of-sale displays
- Ruggedized displays

Key Features

- Passive NIR reflection for low solar heat gain
- Excellent viewability / and neutral CRI
- Eliminates/Reduces mechanical cooling
- Temperable per ASTM C 1048-97b
- Outstanding reliability and durability
- Low field maintenance cost
- Custom sizes and thicknesses available

Available Sizes

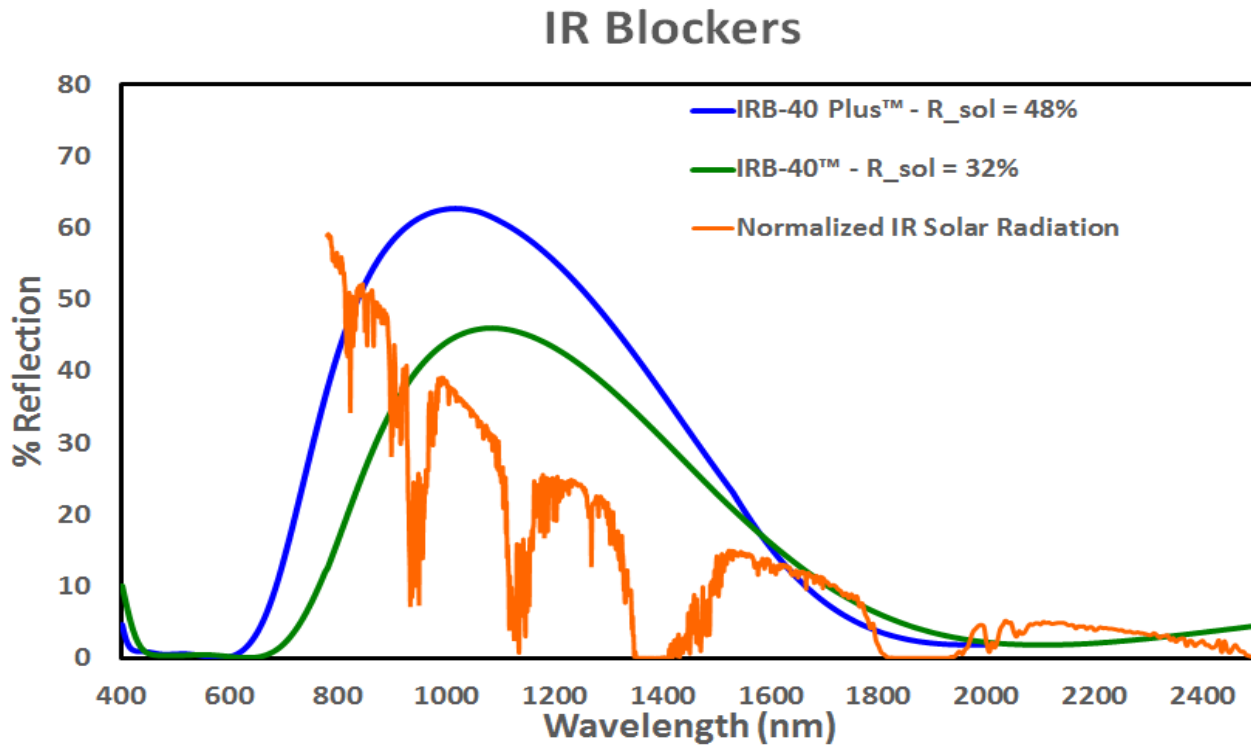
Thickness (mm)	3.0	4.0	5.0	6.0
Size (in)	32" x 50"	32" x 50"	32" x 50.7"	32" x 50"
Size (mm)	812.8 x 1270	812.8 x 1270	812.8 x 1288	812.8 x 1270

Environmental and Durability

- **Humidity Resistance**
24 hour RH per paragraph 4.5.8 of MIL-C-675C.
- **Abrasion Resistance**
20 erasser 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.

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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™	$Y < 0.7\% ^*$	$a^* = 0 \text{ to } 25$ $b^* = -5 \text{ to } -35$	93.0%	42%	1075 nm	32%	0.754
IRB-40 PLUS™	$Y < 1.4\%$	$a^* = 5 \text{ to } 35$ $b^* = -10 \text{ to } -40$	97.0%	57%	1025 nm	48%	0.705
IRB-40 PLUS IM™	$Y < 1.6\%$	$a^* = 5 \text{ to } 50$ $b^* = -15 \text{ to } -45$	96.8%	54%	1050 nm	43%	0.723
IRB-40™ ● HEA®	$Y < 0.9\%$	$a^* = -3 \text{ to } 30$ $b^* = -5 \text{ to } -35$	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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