

What is Rs IR?

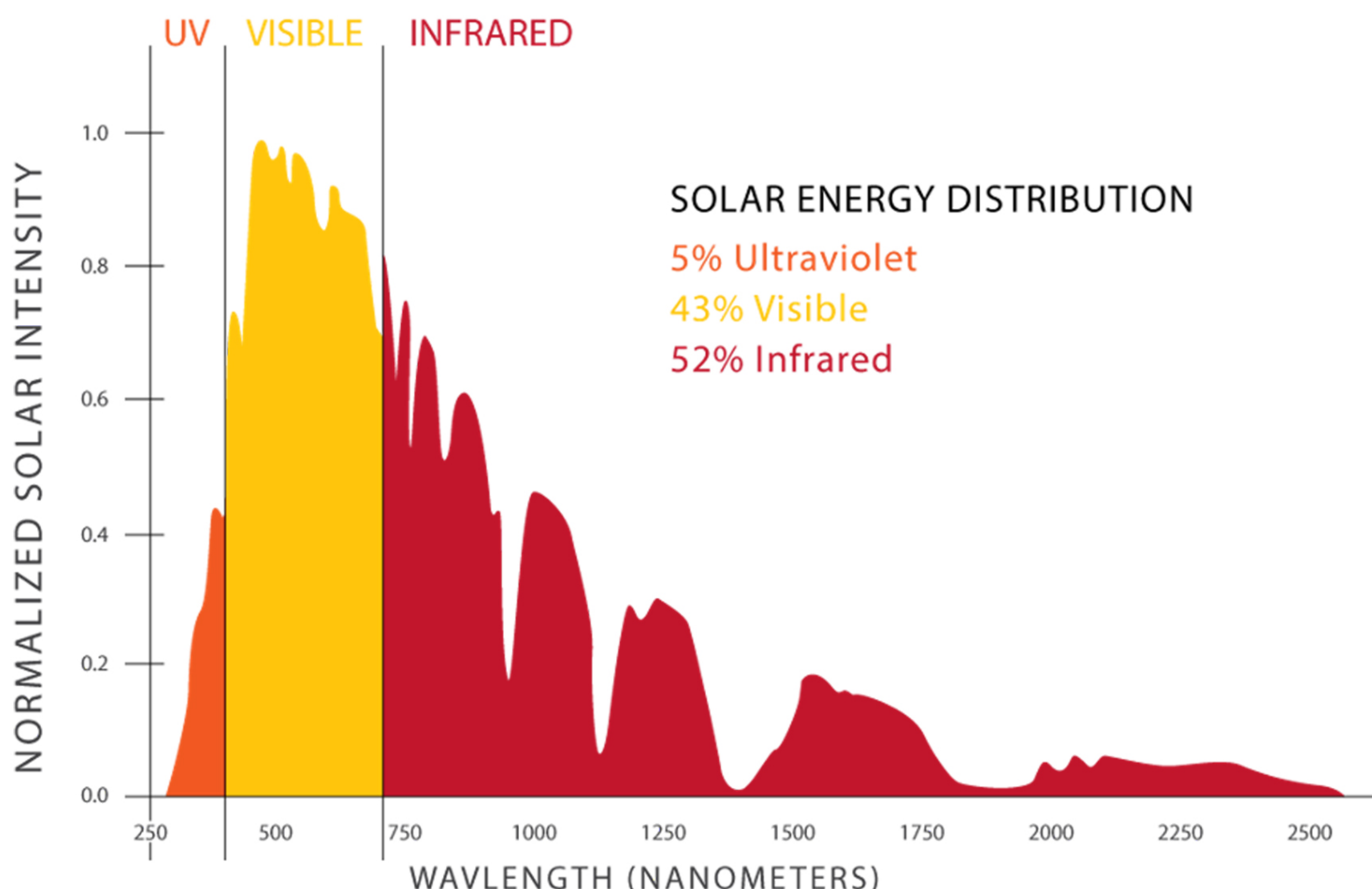
The energy reflected by the total solar spectrum, known as “Rs”, consists of ultraviolet light, visible light, and infrared radiation. The percentage of energy reflected by only the infrared spectrum known as Solar Infrared Reflectance, or “Rs IR”.

How is Rs IR measured?

Mermet’s accredited fenestration laboratory or any third-party accredited laboratory using spectrophotometer testing equipment can measure Rs IR of fabrics.

Why is Rs IR important?

The infrared spectrum makes up **52% (majority)** of the solar energy distribution and contains longer wavelengths, which generate the most heat.

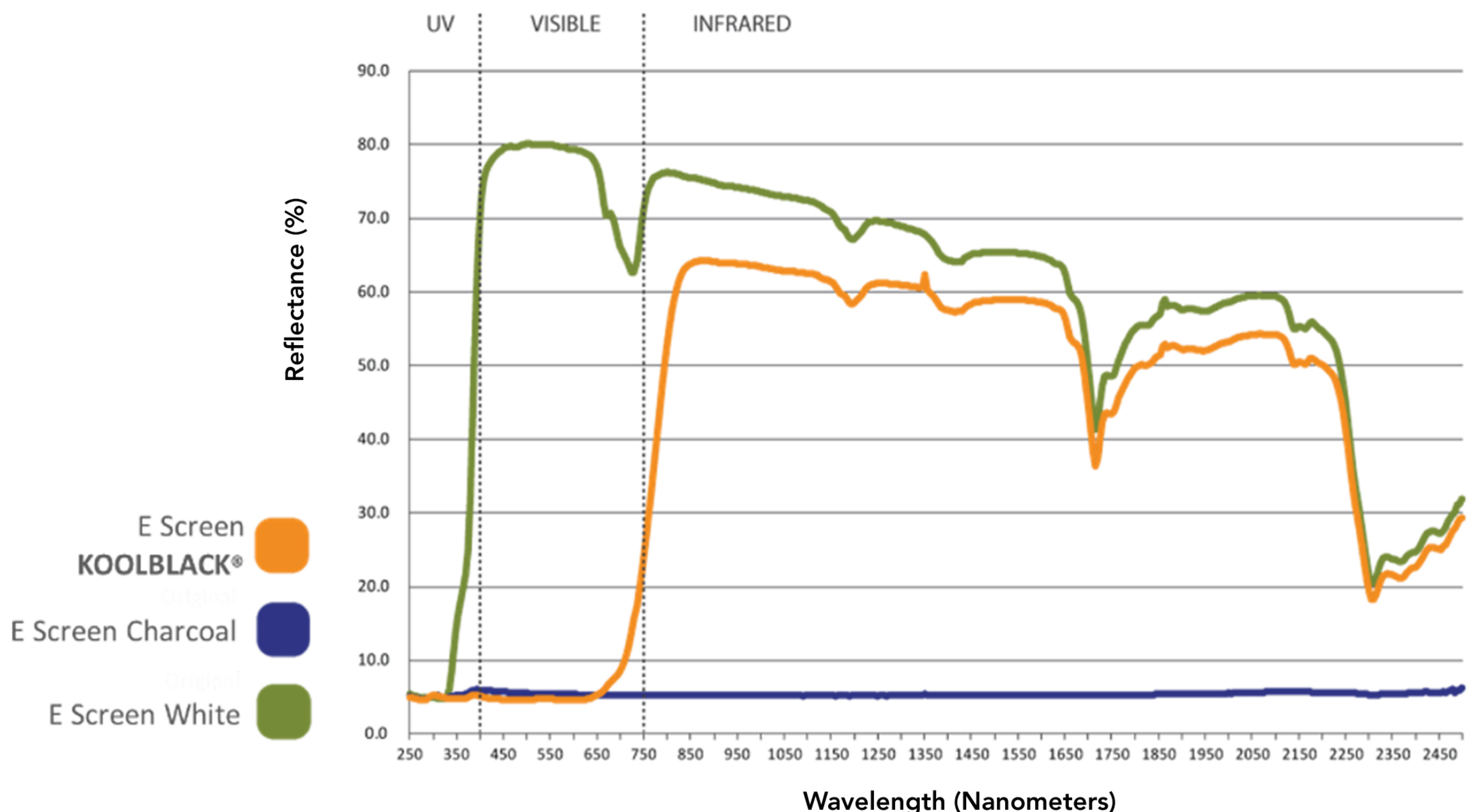


How do you benefit from Rs IR?

Fabrics with more infrared reflection absorb lower amounts of heat. The less heat that fabric absorbs, the less heat that is radiated back into the room. Therefore, knowing **Rs IR** performance allows you to select the best fabric that will stay cooler to the touch even in direct sunlight. You can maximize your occupant comfort by selecting shade fabrics with a higher **Rs IR**. This allows you to sit next to your shades without feeling as much radiant heat.

White fabrics reflect in the visible spectrum, that is what makes them white. They also reflect well in the infrared spectrum that is what makes them high performance.

Black fabrics absorb in the visible spectrum, that is what makes them black. They also absorb more in the infrared spectrum that is what makes it hot.



Graph measures reflectance in UV, Visible and Infrared solar radiation.

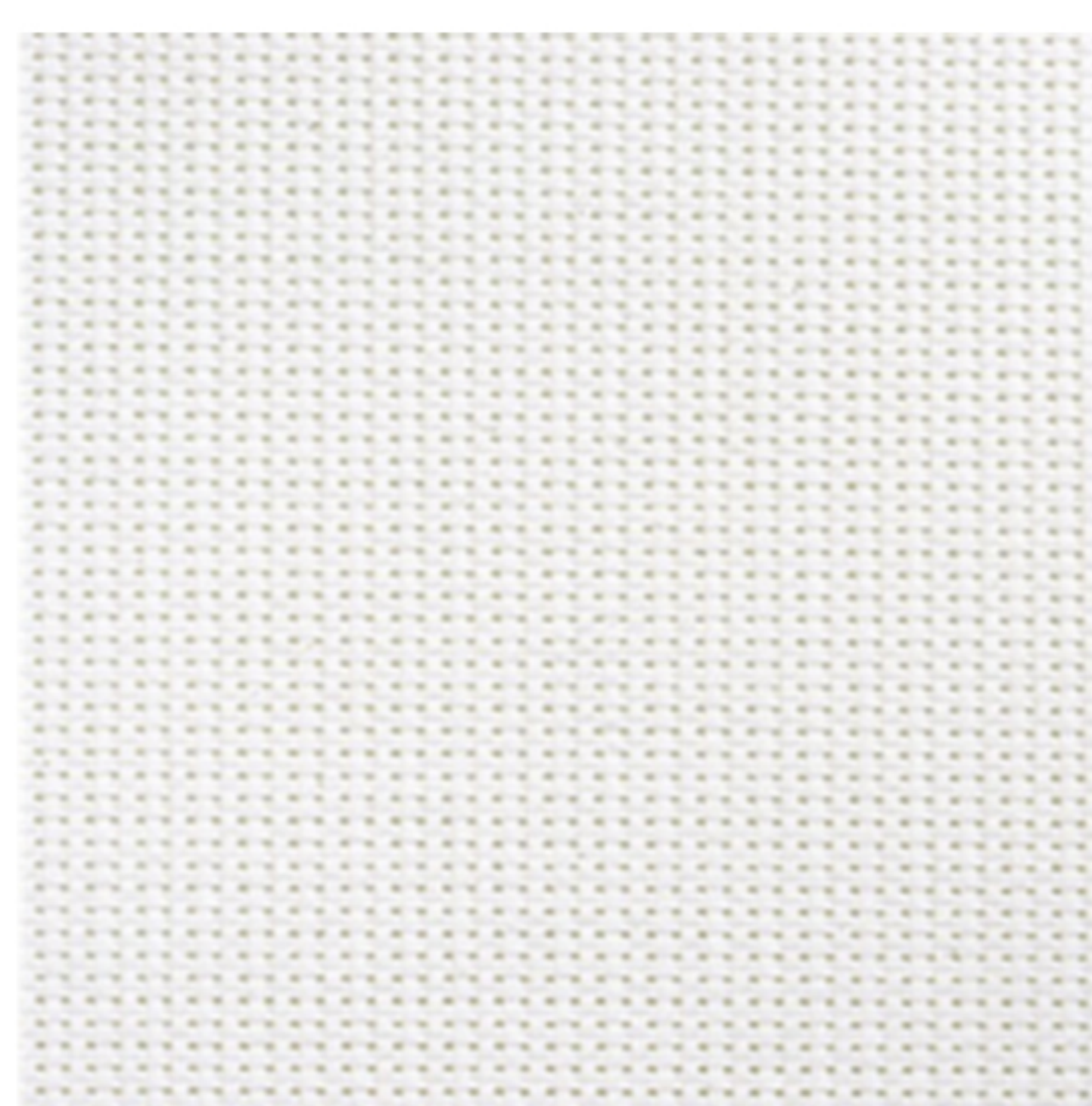
What is the solution?

KOOLBLACK® Technology: a patented technology which enhances the infrared heat reflectivity (Rs IR) of dark color yarns.

Characteristics

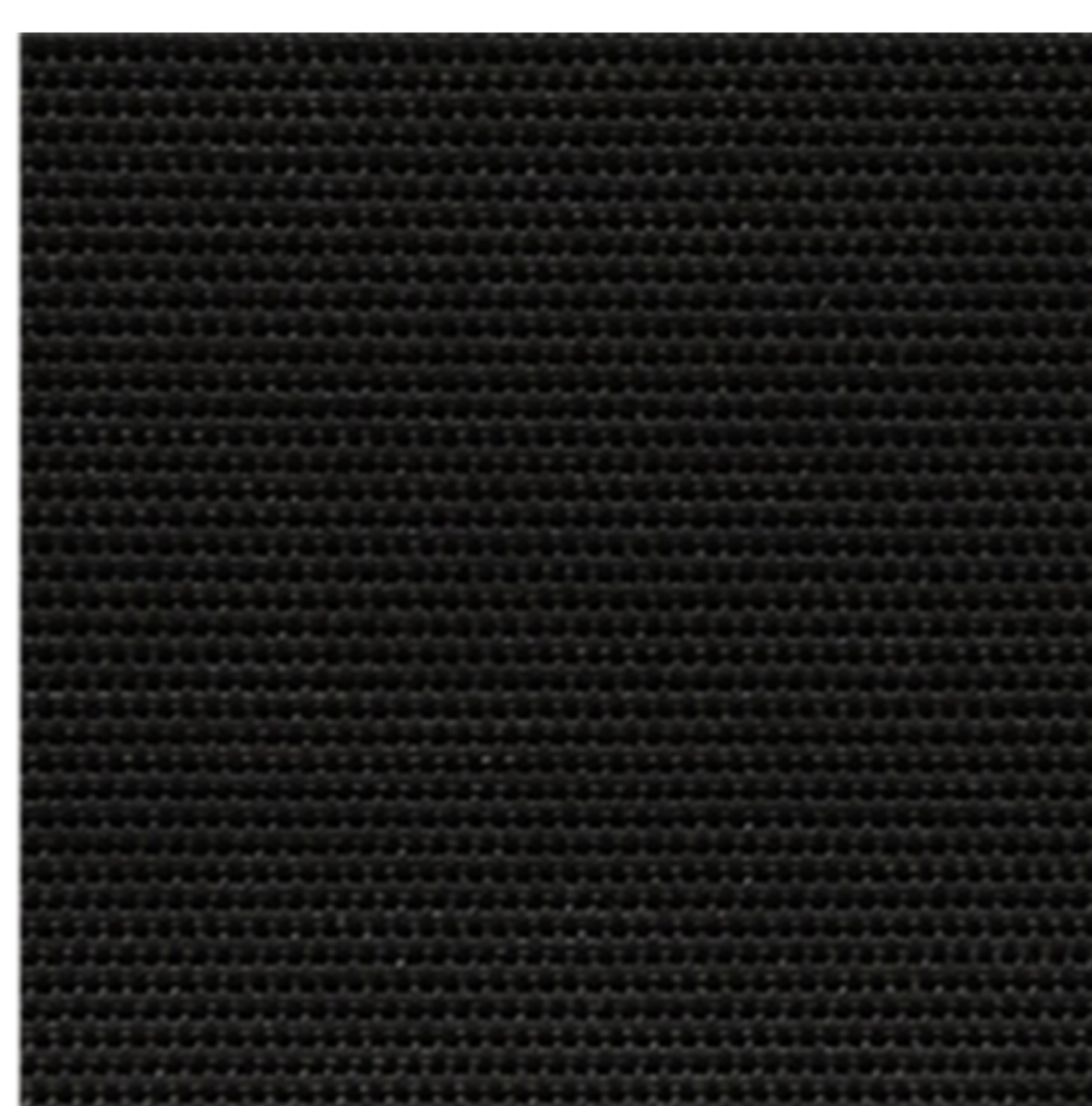
- Incorporated in the PVC coating, not post applied to the fabric so there is nothing to rub off.
- Increases yarn's Rs IR and lowers heat absorption.
- The less it absorbs, the less heat is re-radiated from the fabric back into the room.

Have the flexibility to put the added performance only where you need to. KOOLBLACK® fabrics are designed to be an identical match to the regular non-KOOLBLACK® versions. Traditional dark color shades are excellent for glare control, clear crisp views, and blending with the glass so that the fabric disappears when viewed from the outside. KOOLBLACK® fabrics maintain all those great benefits while also allowing you to sit closer to your window without feeling as much radiant heat for ultimate occupant comfort.



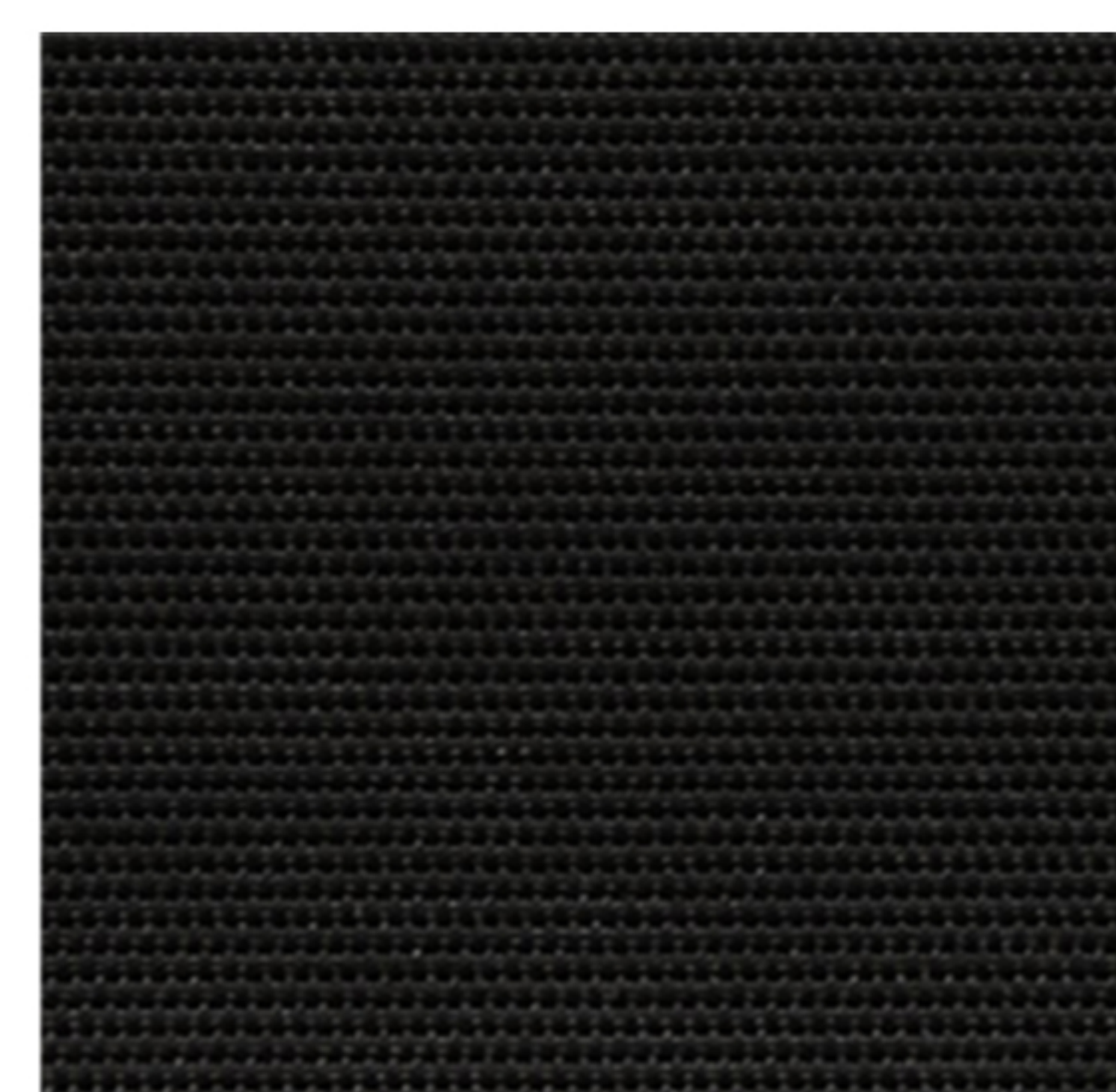
ORIGINAL
E SCREEN 3%
WHITE / WHITE

Rs	73%
Rs IR	70%
Tv	13%



ORIGINAL
E SCREEN 3%
CHARCOAL / CHARCOAL

Rs	5%
Rs IR	5%
Tv	4%



E SCREEN 3% w/ **KOOLBLACK**®
CHARCOAL / CHARCOAL

Rs	33%
Rs IR	59%
Tv	6%

For more information contact info@MermetUSA.com.