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Eyewear UV Transmission

Sunlight has a profound effect on the skin causing premature skin aging, skin cancer, and a host of skin changes. Exposure to ultraviolet light, UVA or UVB, from sunlight accounts for 90% of the symptoms of premature skin aging. Many skin changes that were commonly believed to be due to aging, such as easy bruising, are actually a result of prolonged exposure to UV radiation. The sun gives off ultraviolet radiation that we divide into categories based on the wavelength.

- UVC - 100 to 290 nm
- UVB - 290 to 320 nm
- UVA - 320 to 400 nm

UVC

UVC radiation is almost completely absorbed by the ozone layer and does not affect the skin. UVC radiation can be found in artificial sources such as mercury arc lamps and germicidal lamps.

UVB

UVB affects the outer layer of skin, the epidermis, and is the primary agent responsible for sunburns. It is the most intense between the hours of 10:00 am and 2:00 pm when the sunlight is brightest. It is also more intense in the summer months accounting for 70% of a person's yearly UVB dose. UVB does not penetrate glass.

UVA

UVA was once thought to have a minor effect on skin damage, but now studies are showing that UVA is a major contributor to skin damage. UVA penetrates deeper into the skin and works more efficiently. The intensity of UVA radiation is more constant than UVB without the variations during the day and throughout the year. UVA is also not filtered by glass.

All of our polycarbonate lenses found in our Crews eyewear styles block out 99.9% of harmful UV radiation found in the harmful UV light range up to 400 nanometers (nm).

Faceshield UV Transmission

Our faceshields are made of either PETG or polycarbonate. PETG offers 100% UV protection up to 320 nm. The polycarbonate shields offer 100% UV protection up to 360 nm and blocks approximately 96% of UV light up to 380 nm.

We endorse our faceshield to be secondary protection and should be worn over safety glasses, which offer 99.9 percent UV protection in the harmful range up to 400 nm.

Please let us know if you are in need of further information and thanks again for your inquiry and continued business support.

MEMPHIS CREWS RIVER CITY

