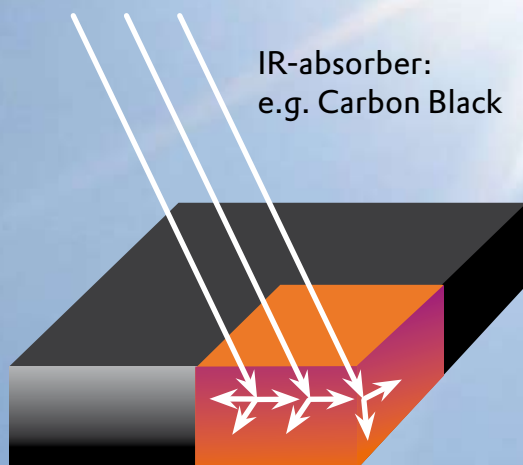
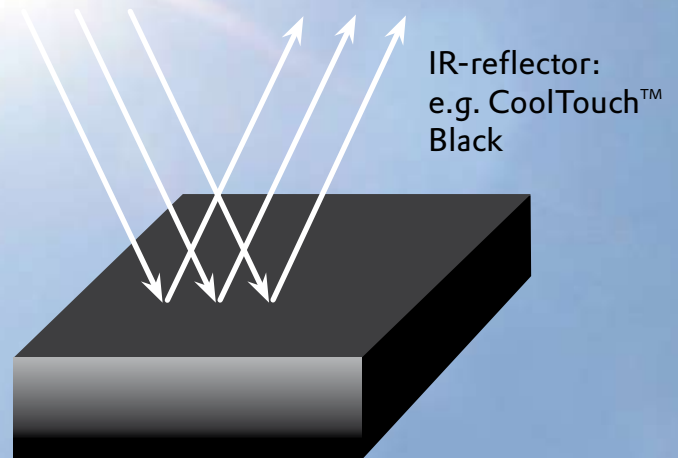


Heat radiation (NIR)



Heat radiation (NIR) is absorbed by carbon black. Plastic part becomes hot.

Heat radiation (NIR)



Heat radiation (NIR) is reflected. Plastic part remains cooler.

PLEXIGLAS® CoolTouch™ Heat-reflecting molding compound

For dark-colored plastic parts that do not heat up,
even in strong sunlight

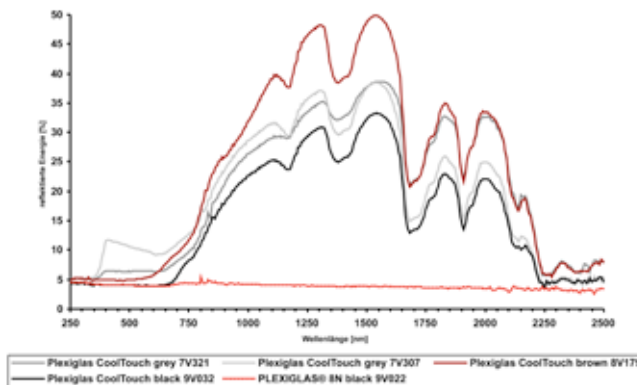
PLEXIGLAS® CoolTouch™

Heat-reflecting molding compound

For dark-colored plastic parts that do not heat up,
even in strong sunlight

CoolTouch™ : Molding Compounds For Surfaces That Keep Their Cool

Dark-colored plastic parts that do not heat up, even in strong sunlight, offer a number of advantages in, for example, the roof modules of cars, the window frames of buildings, and the cover panels of sport & leisure equipment. Specially developed for outdoor applications, PLEXIGLAS® CoolTouch™ molding compound reflects the sun's infrared radiation. This results in a reduction of heat buildup on dark-colored plastic parts in outdoor applications by 15 to 20 percent.



Reflection curves of PLEXIGLAS® CoolTouch™ in comparison to a standard black.

Eco friendly for people and the environment

PLEXIGLAS® CoolTouch™ used on building and car roofs positively affects interior comfort levels. The new heat-reflecting PMMA molding compound reduces heat buildup keeping their interiors pleasantly cool. Less air conditioning is needed so less energy is consumed, which in turn saves power, reduces costs and CO₂ emissions.

Parts last longer, perform better!

PLEXIGLAS® CoolTouch™ solves another problem. Plastic parts can expand and warp upon exposure to strong sunlight. High temperatures can lead to irreversible deformation of dark-colored PVC window frames, making it impossible to open the windows. A layer of PLEXIGLAS® CoolTouch™ offers enhanced surface protection and prevents this from happening extending the life of the window.

Injection molded parts produced from CoolTouch™ have reduced linear expansion, which ensures dimensional stability.

The high UV and weathering resistance as well as colorfastness of PLEXIGLAS® also extend the service life of plastic parts. This reduces costs in the long term, and provides sustainable conservation of resources.

This molding compound can be used in a variety of processing methods, including coextrusion where it can protect plastics such as PVC, PC, ABS, and ASA from the effects of strong heat buildup and weathering—to the benefit of people and the environment.

Greater freedom for designers

Before CoolTouch™ contact with dark-colored decking or garden furniture that has been exposed to strong sunlight was painful. This forced designers to limit themselves to light colors when designing such objects. PLEXIGLAS® CoolTouch™ expands the range of colors designers can use to include dark colors like black, brown, gray, or green. Outdoor products made with CoolTouch™ will remain pleasant to the touch with heat buildup reduced by as much as 15 percent for black components, and more than 20 percent for dark brown. With PLEXIGLAS® CoolTouch™, designers are given a freer hand, because now even dark colors keep their cool!