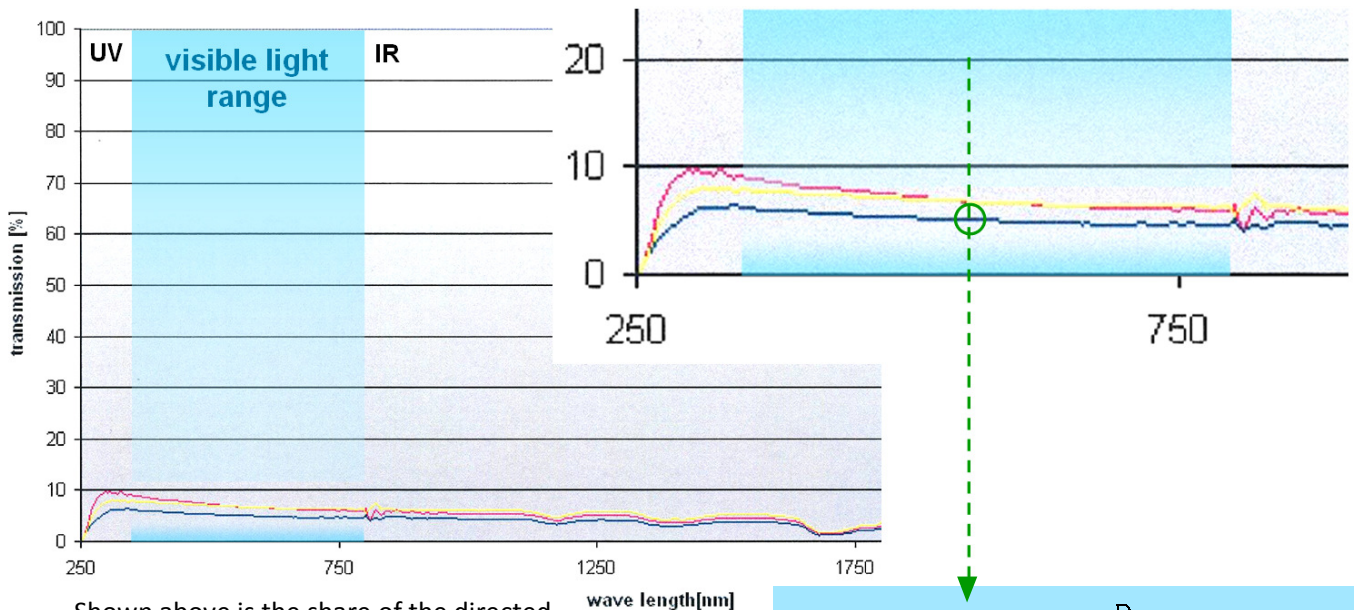


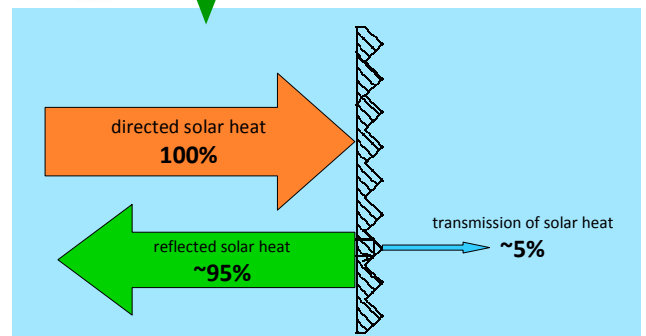
Product Information Prisma Reflect

characteristic values for solar heat reflection and heat transmission factor



Shown above is the share of the directed (heat carrying) sunlight that is let passed by a Prisma Reflect Vertical system under optimum working conditions. The colours of the graphs indicate the performance in new condition (blue), after 10 years (yellow) and after 15 years (red).

Source: Evonik Röhm GmbH



Indices

| | unit | standard / reference | | value |
|---------------------------------|-------|----------------------|------------------|------------------|
| common indices | | | | |
| material thickness | mm | Prisma Reflect 90° | | 1,9 |
| prism angle | ° | | | 90° (2x45°) |
| prism height | mm | | | 0,5 |
| pitch | mm | | | 1,0 |
| peak radius | mm | | | <0,008 |
| material | | | | Plexiglas® POQ62 |
| thermal indices | | | | |
| Vicat softening temperature | °C | POQ62 | ISO 306 | 97 |
| fire behavior | | | DIN 4102 | B2 |
| flammability UL94 | Class | | IEC 707 | HB |
| Optic indices | | | | |
| transmission level global light | % | POQ62 | ISO 13468 | 92 |
| haze | | | ASTM D1003 | <0,5 |
| reflected solar heat | % | Prisma Reflect 90° | Evonik Röhm | >90 |
| g-value | | | Opsira Institute | 0,10-0,15* |
| U coefficient | | | | no impact |

* The g-value can only be estimated in theory because of the unique properties of the prism structure. The g-value varies depending on the mounting and operation of the Prisma Reflect system and the type of the window glazing. The Prisma Reflect louvers do not take up heat when exposed to direct sunlight.