

# NEXTREMA® glass-ceramic

by SCHOTT

Pape Strahlenschutz GmbH is an authorized dealer for NEXTREMA® glass-ceramics from SCHOTT.

The glass-ceramic material platform NEXTREMA® combines the advantages of technical special glass with the properties of high temperature materials.

A wide range of properties enables its use in a variety of applications. Depending on the variant, the high-tech material can withstand temperatures of up to 950°C and, in combination with its thermal shock resistance of up to 820°C, is suitable for use in industrial and household applications such as infrared heater covers or in mechanical engineering.

## Versatile applications

A broad transmission spectrum, especially in the infrared range, makes NEXTREMA® a preferred material for covers of IR patio heaters, electric grills, infrared saunas and cabins, and for industrial processes such as paint drying and soldering operations. Inner lining of high temperature clean room ovens (e.g. display manufacturing).

Easy-to-clean cover plate for magnetrons in microwave ovens. Decorative cover plate for dark radiator heaters.

### Contact:

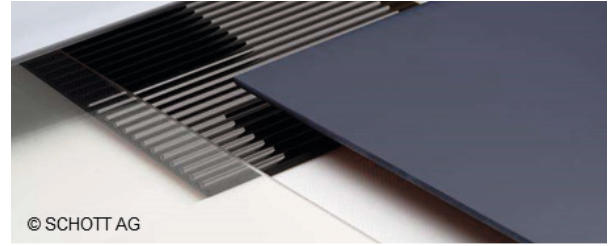
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## Pape Strahlenschutz GmbH



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### Product variants

- » NEXTREMA® 724 - 3 transparent
- » NEXTREMA® 724 - 5 translucent white
- » NEXTREMA® 724 - 8 opaque white
- » NEXTREMA® 712 - 3 tinted
- » NEXTREMA® 712 - 6 translucent bluegrey
- » NEXTREMA® 712 - 8 opaque grey

### Main properties (depending on the material variant)

- » Temperature resistance up to 950°C
- » Coefficient of expansion close to 0
- » Thermal shock resistance up to 820°C
- » Wide transmission spectrum – 6 transmission profiles in the visible and infrared
- » Chemical resistance to acids, bases and corrosion (according to DIN 12116, ISO 695 and DIN ISO 719)
- » Process inertness
- » Mechanical strength at high temperatures range

### Available dimensions

| Thickness | Standard length (Max.) | Standard width (Max.) |
|-----------|------------------------|-----------------------|
| 2 mm      | 950 mm                 | 530 mm                |
| 4 mm      | 1.954 mm               | 1.100 mm              |
| 5 mm      | 1.930 mm               | 1.075 mm              |
| 6 mm      | 1.930 mm               | 1.060 mm              |
| 8 mm      | 950 mm                 | 530 mm                |

Others on request.

### Our skills

- » cast-in-place lamination process
- » round glasses DIA 10 - 350 mm
- » individual profile cut
- » edges (matt) grinded and polished
- » mitre joint, i.e. 45 degree
- » drill hole dia 5- 290 mm
- » matting
- » marking
- » frames and spacer

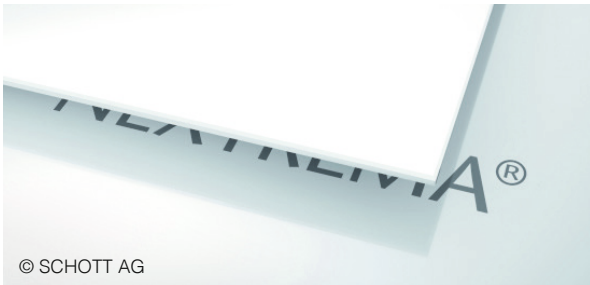
# NEXTREMA<sup>®</sup> glass-ceramic

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## Pape Strahlenschutz GmbH

Pape Strahlenschutz GmbH  
offers the following variants:

### NEXTREMA<sup>®</sup> opaque white



- » Very high temperature resistance up to 950°C.
- » Suitable for industrial high temperature and microwave applications and areas of use where low radiation is to be transmitted in the wavelength range of visible light and the IR ranges.
- » Homogeneously colored glass-ceramic and chemical resistant to acids and alkalis according to DIN 12116, ISO 695 and DIN ISO 719.

### NEXTREMA<sup>®</sup> tinted



- » High robustness combined with high thermal shock resistance
- » Excellent transmittance for IR radiation and thermal expansion of almost zero
- » Suitable for radiant heaters and infrared heaters indoors and outdoors in residential and industrial areas
- » Volume colored (dark tinted) glass-ceramics

### NEXTREMA<sup>®</sup> transparent



- » Thermal shock resistance up to 820°C
- » High transmission in the short-wave IR range
- » Suitable for high temperature processes

### NEXTREMA<sup>®</sup> translucent white



- » Reduction of visible light in combination with high IR transmission
- » Suitable for glass LED lighting in industrial and product design applications
- » Translucent white glass-ceramic

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