

SCHOTT NEXTREMA™ Glass-Ceramic Heats Up Technology Manufacturing

Robustness under extreme temperatures and high chemical resistance make NEXTREMA™ glass-ceramic a key component in semiconductor and display manufacturing

Louisville, KY—June 25, 2013—SCHOTT, the international technology group and leader in the fields of specialty glass and glass-ceramics, has expanded the use of [NEXTREMA™](#) high performance glass–ceramic in semiconductor and display manufacturing through new applications in industrial ovens and production processes. NEXTREMA™ glass-ceramic operates at temperatures up to 1,742 degrees Fahrenheit (950 degrees Celsius), making it an ideal material for inner linings and heat shields in high-temperature industrial ovens used in semiconductor and display manufacturing technologies.

“NEXTREMA™ can be used for all fast thermal and high-temperature curing processes, including thermal annealing systems and curing furnace systems,” said Michael Glaninger, Product Manager responsible for NEXTREMA™ at SCHOTT. “High-performance glass-ceramics are well-suited for industrial ovens for flat panel display (FPD) production, as well as for all thermal production processes of thin film transistors (TFT). It can also be used in heat chamber applications based on LTPS technology for the production of AMOLEDs.”

In addition, features such as minimal thermal expansion, process inertness, and a wide transmission spectrum make NEXTREMA™ the perfect material for carrier plates in the production of displays, chips, and wafers. The NEXTREMA™ standard product portfolio offers thicknesses from 2 mm to 8 mm. The range of thicknesses enables flexibility, including production with carrier plates made of thinner sheets of NEXTREMA™, which shorten processing cycles—a significant cost advantage for manufacturers.

NEXTREMA™ features:

- Operating temperature up to 1,742 degrees Fahrenheit (950 degrees Celsius)
- Minimal thermal expansion
- Thermal shock resistance
- Wide transmission spectrum
- Surface resistance and gas impermeability
- Process inertness, e.g. in coating processes
- Robustness at high temperatures

SCHOTT provides its partners with expertise and technical support to ensure that they make optimal use of NEXTREMA™ glass-ceramic in their processes.

A video with more information on NEXTREMA™ is available on the SCHOTT website:
<http://www.us.schott.com/hometech/english/nextrema/nextremaworld.html>

NEXTREMA™ is a trademark of SCHOTT AG.



Photo ID 186580: SCHOTT NEXTREMA™ is available in four types, each with different product properties and benefits. Photo: SCHOTT

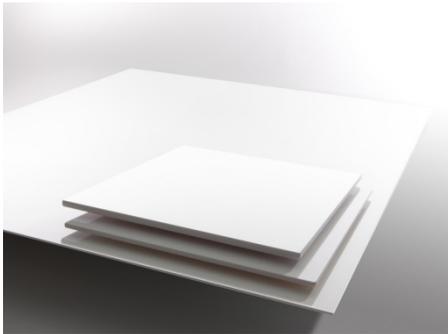


Photo ID 185819: SCHOTT NEXTREMA™ is available in different sizes and thicknesses. Photo: SCHOTT

Download link to high-resolution graphic files:
<https://www.schott-pictures.net/presskit/186523.nextrema>

More press photographs can be downloaded from:
www.schott-pictures.net

About SCHOTT

SCHOTT is an international technology group with more than 125 years of experience in the areas of specialty glasses and materials and advanced technologies. SCHOTT ranks number one in the world with many of its products. Its core markets are the household appliance, pharmaceuticals, electronics, optics, transportation and architecture industries. The company is strongly



committed to contributing to its customers' success and making SCHOTT an important part of people's lives with high-quality products and intelligent solutions. SCHOTT is committed to managing its business in a sustainable manner and supporting its employees, society and the environment. The SCHOTT Group maintains close proximity to its customers with manufacturing and sales units in all major markets. Its workforce of around 16,000 employees generated worldwide sales of \$2.6 billion (approximately 2.0 billion euros) for the 2011/2012 fiscal year.

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