

BLOVELIGHT SELECTS SABIC'S ULTEM™ RESIN FOR ITS INTEGRATED SINGLE-MODE WDM LENS

Established in 2005, Blovelight Ltd. is a global leading manufacturer of advanced optical communication lenses. Based in Dongguan City, China, they focus on technological innovation and have obtained more than 30 product patents and over 60 molding patents. In the past fifteen years, the company has customized 300+ optical solutions for over 130 customers and delivered more than 1 billion optical components. In 2022, Blovelight won a prestigious innovation award with their Wavelength Division Multiplexing (WDM) lens array.

IN NEED OF A MATERIAL TO DEVELOP AN INTEGRATED SINGLE-MODE WDM MODULE

WDM enables simultaneous transmission of multiple wavelengths of light over a single fiber, achieving a significant increase in fiber capacity. Blovelight wanted to integrate the WDM module and lens array into one easy-to-use component. They needed an advanced material that offers a combination of excellent mechanical strength, high IR transmission and outstanding dimensional stability. SABIC's ULTEM™ 1010 resin met Blovelight's demanding requirements.



ULTEM 1010 resin met Blovelight's demanding requirements for their integrated single-mode WDM module

"I would like to thank SABIC's ULTEM resin team for their excellent support in the development of our integrated WDM module. The high-performance ULTEM resin enabled us to create this advanced solution for the optic communication market. We look forward to our next collaboration with SABIC."

David Guo
Director

Blovelight Intelligent Technology Co.,Ltd

ULTEM™ RESIN IS WELL-SUITED FOR BLOVELIGHT'S INTEGRATED WDM LENS

ULTEM™ 1010 resin, a high performance polyetherimide (PEI) material, with low thermal expansion and high near-IR transparency, is a great candidate for single-mode optical transceiver lenses. It provides better design and production capability, and potential cost savings, compared to traditional aspherical glass lenses.

- Ability to mold the complex module in a single step
- High transmission in IR regions, >88% at 850-1550nm
- High refractive Index
- High dimensional stability at a wide temperature range
- Components can pass Telcordia GR-468 for Optoelectronic Devices
- Retention of mechanical modulus & strength



THE ULTEM RESIN TEAM ACTIVELY SUPPORTED BLOVELIGHT

SABIC and Blovelight collaborated throughout the development process leveraging application technical support from SABIC's technology team. To serve customers like Blovelight, SABIC recently opened a global Opto-Electronic Center of Excellence in the Netherlands to collaborate across the value chain from component design to end-use applications.

“SABIC is helping Blovelight to facilitate further adoption of single-mode fiber optics, an emerging datacenter infrastructure technology for high-speed transmission of large data volumes over long distances.”

Gabrie Hoogland
Chief Scientist
SABIC's Specialties Business

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