

FUKUVI Chemical Announces Development of 'Light Guiding Bar PFAS-Free Type' to Meet European PFAS Regulations and Automotive Sustainability Demands

FUKUVI Chemical Industry Co., Ltd. (Head Office: Fukui City, Fukui Prefecture; President: Katsunori Mori) is pleased to announce the successful development of a **PFAS-free light guiding bar**, completely free of fluorinated compounds (PFAS).

This innovative product meets the stringent environmental regulations and sustainability standards set by global automotive manufacturers, particularly in Europe, while delivering luminous performance equal to or exceeding that of conventional products. It offers a compelling new option for ambient and interior lighting in vehicles and is expected to gain traction in global markets.

Traditionally, PFAS were used in exterior components to maintain luminous performance. However, through proprietary technology, FUKUVI has eliminated the need for PFAS, significantly reducing environmental impact. A patent has already been filed, with international applications forthcoming.

Luminous Performance Comparison: PFAS-Free Type vs. Conventional Product

Note: The PFAS-free variant demonstrates luminous performance on par with or superior to conventional models.

PFAS-Free Type

Conventional product

Background to the Development

In the automotive sector, demand for illumination components such as ambient lighting continues to grow, driven by the pursuit of enhanced comfort and design in vehicle interiors. At the same time, PFAS regulations—especially in Europe—are becoming increasingly stringent, prompting global automakers and suppliers to accelerate their sustainability initiatives.

In response to these market dynamics, FUKUVI has developed a PFAS-free light guiding bar that maintains high luminous performance without relying on fluorinated compounds.

Product Specifications

Outer Diameter (OD): $\phi 3.5$ mm, $\phi 6.3$ mm

Hardness: Hard Type

(Note: The material offers greater flexibility than conventional hard-type light guiding bars.)

Length: Customizable up to a maximum of 2 meters

Future Development and Outlook

Final adjustments to product specifications and preparations for mass production are currently underway, with full-scale production scheduled to begin in **April 2026**.

FUKUVI plans to offer both PFAS-free and conventional product lines to meet the diverse needs of global automotive manufacturers and suppliers. Participation in international exhibitions is also under consideration to enhance global market awareness. Sample distribution of prototypes will begin once preparations are complete.

Key Features of the 'Light Guiding Bar'

1. Uniform Illumination

Light introduced from one end of the cylindrical molded component diffuses internally, resulting in beautifully uniform illumination throughout.

2. Two Hardness Options

Available in soft and hard types, allowing selection based on application and installation environment.

3. Premium Lighting Effect

The soft type, in particular, offers excellent flexibility and luminous quality, producing refined and aesthetically pleasing light—ideal for automotive interior lighting applications.



Application Examples of the 'Light Guiding Bar'

The 'Light Guiding Bar' can be utilized across a wide range of industries, including:

- Automotive Interiors: Ambient lighting, door trim, center consoles, and other internal illumination.
- Consumer Electronics
- Robotics
- Gaming Chairs
- Interior and Architectural Lighting
- Building Materials

Automotive Interiors



Robotics



Gaming Chairs



Consumer Electronics



About FUKUVI Chemical Industry Co., Ltd.

Since its founding, FUKUVI Chemical Industry Co., Ltd. has supported daily life across various fields through its resin molding technology rooted in chemistry. Our mission is to create new value using FUKUVI's unique chemical expertise and to continuously challenge ourselves to give physical form to our customers' visions. We are a development-focused plastics manufacturer dedicated to turning ideas into reality through the power of chemistry.

Company Overview

Company Name FUKUVI Chemical Industry Co., Ltd.

Location 33-66 Sanjuhassha-cho, Fukui City, Fukui

Representative Director Katsunori Mori

Established May 1953

Website <https://www.fukuvi.co.jp/>

Business Activities

1. Manufacturing and Sales of Construction Materials (e.g., residential interior/exterior finishing materials, floor systems for multi-unit housing)
2. Manufacturing and Sales of Resin-Based Industrial Materials
3. Manufacturing and Sales of Precision Chemical Products (e.g., functional precision resin products like anti-reflection film)

Inquiries

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