

Mitsubishi Chemical Develops Highly Heat-Resistant Grade of KEIJU™ Silicone Rubber Film

Mitsubishi Chemical Corporation

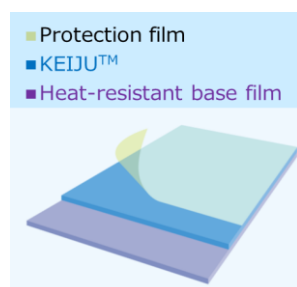
Mitsubishi Chemical Corporation (MCC; Head office: Chiyoda-ku, Tokyo; President: Masayuki Waga) has developed a new grade of KEIJU™ silicone rubber film, which exhibits higher heat resistance than conventional grades. It will be officially launched at the Highly-functional Film Expo being held at Makuhari Messe on December 2-4, 2020.

Created with MCC's original processing technology, KEIJU™ is a thin thickness silicone rubber film featuring thickness with high accuracy. This silicone rubber can also be laminated and surface-treated with other types of materials such as polyester films, and has long been highly rated as a material for industrial equipment and processing.

In recent years demand has grown for smaller, more highly-integrated electronic devices and heat management solutions, and MCC's highly heat-resistant grade will meet the needs of customers looking to adopt high-temperature processes. A two-layer structure consisting of a heat-resistant base film and silicone rubber giving further thermal resistance can be used repeatedly in 300°C environments while attaining ultra-thin combined thicknesses of 50-500 µm. While utilizing the shock absorption and surface releasability that are particular attributes of silicone rubber, lamination of heat-resistant base films with this new grade is expected to make components easier to handle and be effective in preventing lateral slippage under stress. As with conventional grades, thickness and rubber hardness can be adjusted according to customer demands.

In response to increasingly diverse and sophisticated customer needs, MCC will continue to pursue further R&D on KEIJU™ silicone rubber film and strive to expand its product line-up.

Composition of the highly heat-resistant grade of KEIJU™



KEIJU™ and the heat-resistant base film are bonded using MCC's original technology.

*The above image is for illustrative purposes only. Actual colors vary from the composition.

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