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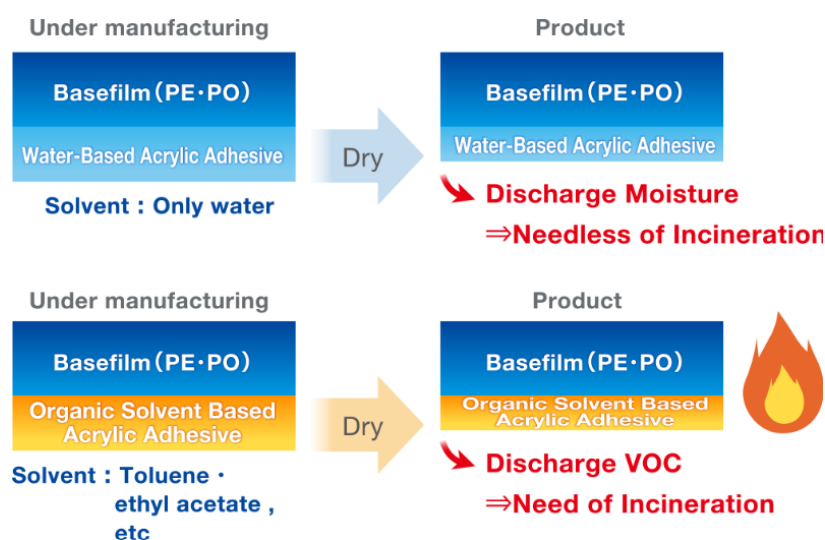
Mitsui Chemicals ICT Materia Uses Water-Based Acrylic Adhesive in New Surface Protective Tape for Fiber Laser Cutting of Metal

Helping reduce environmental impact and improve performance

Mitsui Chemicals ICT Materia, Inc. (Head Office: Chuo-ku, Tokyo; President & CEO: SAIMOTO Yoshihisa) today announced that it has employed a water-based acrylic adhesive to successfully develop a new surface protective tape in September 2024 for use in fiber laser cutting. Mass production of the new material will begin in April 2025 as part of the Mitsui Masking Tape™ lineup.

The field of metal processing has recently seen remarkable advances in laser cutting technology capable of not only improved precision and speed but also unmanned, automatic operation, and further progress is expected going forward. Recent years have also seen rising demand for environmental, economic and social sustainability, and Mitsui Chemicals ICT Materia is working to provide solutions on this front.

With its newly developed product, Mitsui Chemicals ICT Materia has succeeded in using a water-based acrylic adhesive to achieve surface protective tape adhesion during laser cutting – something that had previously only been possible with organic solvent-based adhesives. The new product maintains Mitsui Masking Tape™'s benefits of being quick to peel from products and causing minimal noise during unwinding, while also enabling reduced VOC and CO₂ emissions in Mitsui Masking Tape™ production process.



Reducing VOC and CO₂ emissions in Mitsui Masking Tape™ production process

The new surface protective tape can also help improve the quality of processed products by, among other benefits, minimizing burn marks along cut edges. The product promises to be kind to both people and the environment.

Reference:

Mitsui Masking Tape™: <https://www.mcictm.com/english/product/protect/mitsui.html>

For inquiries about this release, please contact:

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