JMTC

NEWS RELEASE

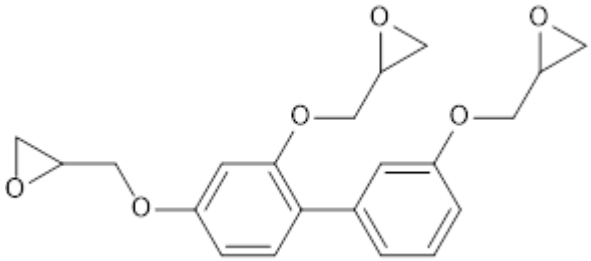
August 6, 2025
Japan Material Technologies Corporation

License Agreement Concluded with Mitsui Chemicals Regarding the Production Method for Epoxy Compounds Having a Biphenyl Skeleton

Japan Material Technologies Corporation (Head Office: Chuo-ku, Tokyo; President: Koyu Urata; "JMTC") has concluded a license agreement ("the Agreement") with Mitsui Chemicals, Inc. (Head Office: Chuo-ku, Tokyo; President: Osamu Hashimoto; "Mitsui Chemicals") regarding the production method for epoxy compounds having a biphenyl skeleton.

The Agreement covers the production method ("the Method") developed by Mitsui Chemicals for multifunctional epoxy compounds having biphenyl skeletons with reduced residual chlorine content ("the Compound"). The Compound has a rigid biphenyl skeleton, which contributes to high heat resistance, high thermal conductivity and low coefficient of thermal expansion (low CTE) when incorporated into resin. Additionally, the Compound offers low melting point, low viscosity and high solvent solubility, allowing for reduced viscosity and improved handling of resin compositions. Since certain structures remain liquid near room temperature, the Compound is also expected to be used in a variety of applications such as liquid compositions, paints and coating materials. JMTC will promote early commercialization of the Compound by supplying it to material manufacturers and others, utilizing the non-registered exclusive license obtained through the Agreement.

<Example of the structure of the Compound >



JMTC has been engaged in the industrialization of various materials such as alicyclic epoxy DCPD-DE, trifunctional benzoxazine BTBz, Double Decker Silsesquioxane-Norbornane-2,3-dicarboxylic Anhydride substituted, negative thermal expansion material BNFO, and resin particles, that achieve high heat resistance and low thermal expansion by incorporating into resin compositions. With the increasing performance and miniaturization of electronic devices, there is a rapidly expanding and diversifying need for thermal management, such as low thermal expansion and high heat resistance, as well as low viscosity materials. JMTC will continue to respond to these needs through active commercialization of innovative electronics-related materials.

JMTC has been working to commercialize innovative technologies developed by Japanese companies, universities and research institutes through license-outs and carve-outs. JMTC will continue to contribute to innovation in Japan's materials industry by promoting the commercial application of unused innovative material technologies.