

April 13th, 2020

## **New Casio G-SHOCK GBD-H1000 Watches to Employ Mitsubishi Chemical's MOSMITE™ Antireflective Film**

Mitsubishi Chemical Corporation

Mitsubishi Chemical Corporation (MCC; Head office: Chiyoda-ku, Tokyo; President: Masayuki Waga) announced today that Casio G-SHOCK GBD-H1000 sports watches incorporating MCC's advanced MOSMITE™ antireflective film will debut on April 24. The film bonds to the photovoltaic elements and liquid crystal modules of these models to suppress reflections and optimize display definitions and contrasts.

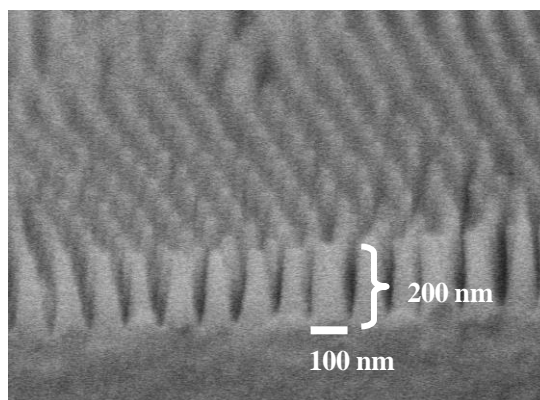
MOSMITE mimics the fine structure of moth eyes. The width of the 200-nanometer surface protrusions with their 100-nanometer intervals is narrower than the wavelength of visible light. This diminishes the resulting change in the refractive index of light and suppresses reflections. The reflectivity of glass and plastic surfaces is generally 4 to 5%. Applying MOSMITE slashes reflectivity to between 0.1 and 0.3%, for outstanding light transmission. The film offers tremendous potential across countless applications, which already include vehicular and medical displays, signage, and framed pictures

MCC will continue to develop applications and markets for MOSMITE in Japan and around the globe.



G-SHOCK GBD-H1000

(Photo courtesy of Casio Computer Co., Ltd.)



Enlarged structure of MOSMITE

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Reference: Reflection comparisons

