

iMiD 2025

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Exhibitor Introduction	The KIMM (Korea Institute of Machinery & Materials) is a national research institute at the forefront of innovation in machinery and materials, advancing core R&D and commercialization. Department of Nano-devices & Displays , a specialized research unit within KIMM, pioneers the development of next-generation freeform displays, transparent and stretchable MicroLEDs, and meta-structured devices . By integrating nano-materials, innovative device design, and advanced manufacturing technologies, the team accelerates breakthroughs in future display technologies and drives industry transformation.	
Exhibit Description	We present a stretchable MicroLED display that incorporates auxetic metamaterials and a shape-transformable material developed through the NRF Global Young Connect (GYC) project for freeform display applications (No. RS-2024-00408989). A dual-phase glycol gel with a distributed glass transition temperature (T_g) enables the material to be reversibly fixed in shape and recovered.	
Exhibit Product	<ul style="list-style-type: none">- Stretchable MicroLED Display Incorporating Auxetic Metamaterial- Shape-Transformable Substrate Materials for Freeform Display Applications	