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Abstract: Advanced specialty glasses for new display applications

New applications are enabled by new technology solutions. SCHOTT drives technology development for special glass solutions, which are well suited for next generation displays.

Mobile devices require displays with high quality covers and substrates. SCHOTT addresses this demand not only for rigid applications, but also for flexible displays. In such displays, weight and spatial demand need to be as low as possible to leave room for other components such as larger GPUs or batteries.

In this context, ultra-thin glass is receiving great attention. It is thinner than a human hair, but offers high strength and mechanical flexibility, at the same time. By using innovative materials and its proprietary down-draw technology, SCHOTT can produce ultra-thin glass down to 25 μm . With such form factors and options for chemical toughening, SCHOTT's ultra-thin glasses offer many advantages over plastic or silicon film. Thereby, they support the trend towards miniaturization and make exciting concepts possible in the race to develop mobile technologies of the future.

Beyond smartphones and tablets, immersive displays and new human device interfaces (HMI) are becoming a reality due to augmented reality products. SCHOTT's *Real View*[™] high-index glass wafers are a key component for high quality AR devices, allowing an increased Field-of-View (FoV) and higher image quality for the best user experience.

Bio:

Dr. Mathias Mydlak received his PhD in physical chemistry on OLED-emitting materials at the University of Münster in 2011. Prior to joining SCHOTT in early 2018, he was responsible for business development and product management at CYNORA, a young company specialized in TADF OLED-emitters for display and lighting applications. Amongst others topics, he is now driving the business development for flexible ultra thin glasses at SCHOTT for various applications.