

SOLGELWAY

YES WE COAT!

ACELED PURELY MINERAL LIGHT CONVERSION LAYER FOR LEDs

Traditional LEDs bind the YAG/Phosphor light converters on P-N junctions with organic-based materials, which are degraded by blue light and heat release. ACELED is an **organic-free Sol-gel (ceramic) binder** (applied by a **specific deposition process**), that provides a **longer life time** and a **cost reduction** to the LEDs. In addition, ACELED can be **optically passive (transparent)** or **active (absorbing, luminescent)** to optionally adjust the emission spectrum directly at the light conversion level.

APPLICATIONS

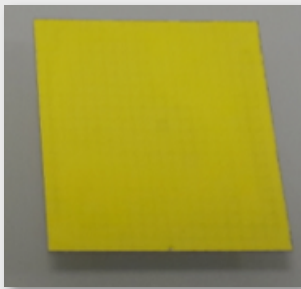
LEDs for lighting
Specialty LEDs

PROCESS

Dip-coating, Spray-coating, needle or drop casting

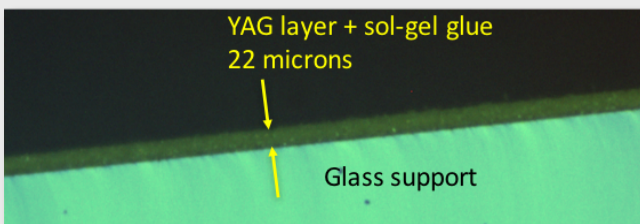
SUBSTRATES

Ceramic and traditional LED wafers

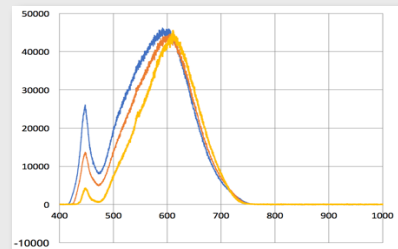


Mechanically resistant.
Thermally resistant.
Transparent or optically active binders.
Adjustable optical properties.

Layer properties



Images of YAG phosphor layers on glass binded by ACELED



Emission modified by a blue filter binder

PATENT PENDING