

Shelf-stable silicone-phosphore composites for LED packaging



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Common problems with silicone-phosphor composites

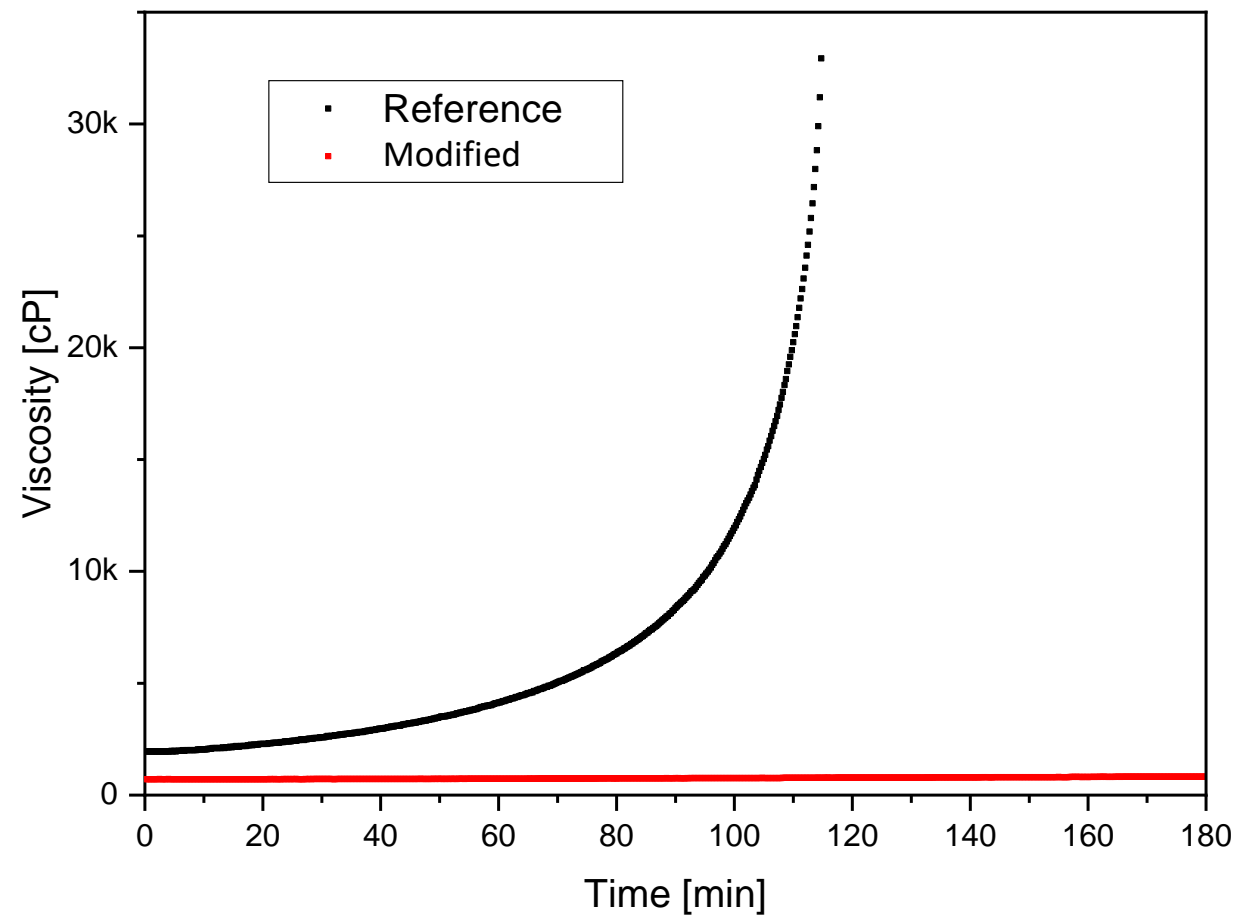
- Short pot life = short processing time
- Manufacturing waste
- Reproducibility issues
- Inflexible manufacturing process

Supresil™ - novel shelf-stable silicones

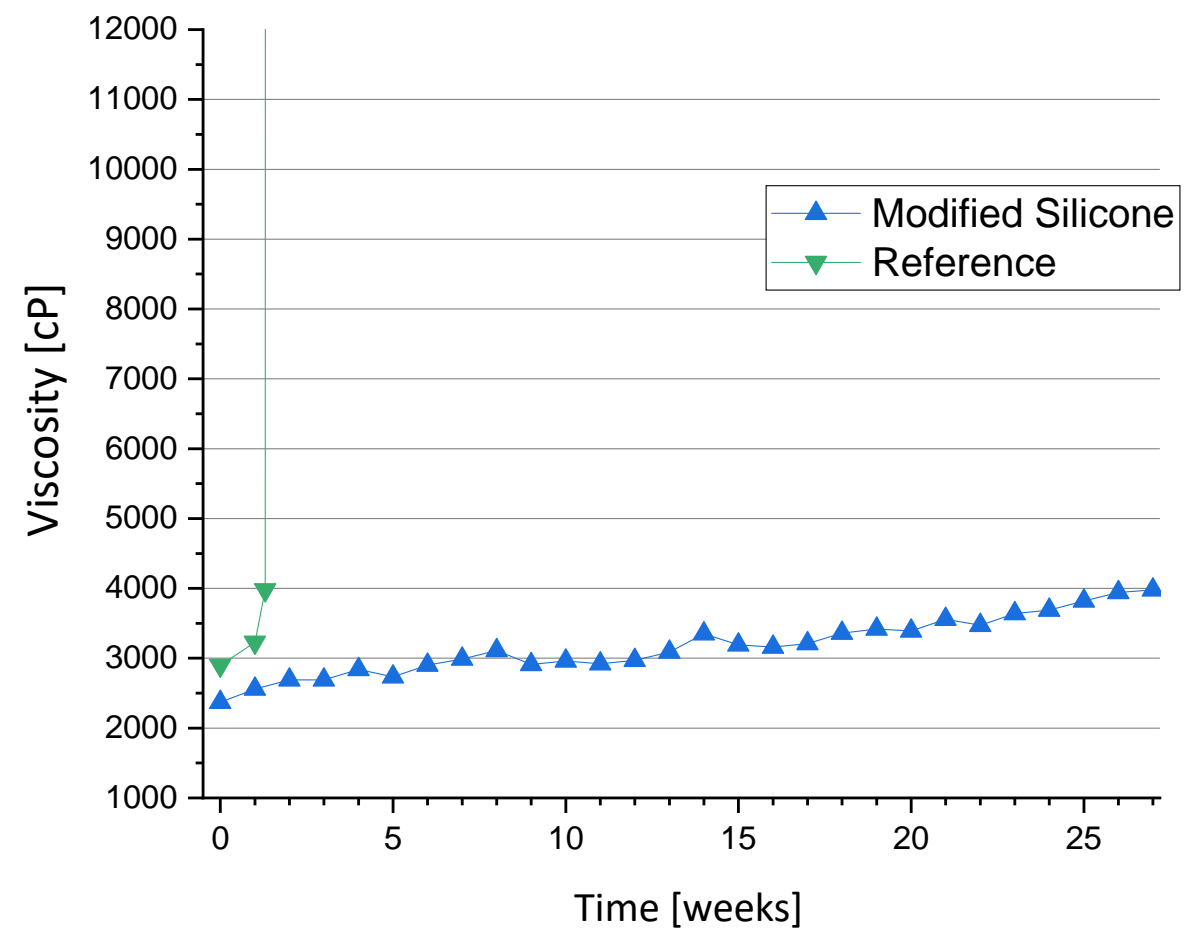
- No curing at processing temperature
- Normal curing at curing temperature
- Improved wetting and distribution of the dispensed material
- Better dispersion of the phosphors

Supresil™ - novel shelf-stable silicones

Curing inhibition at 40°C



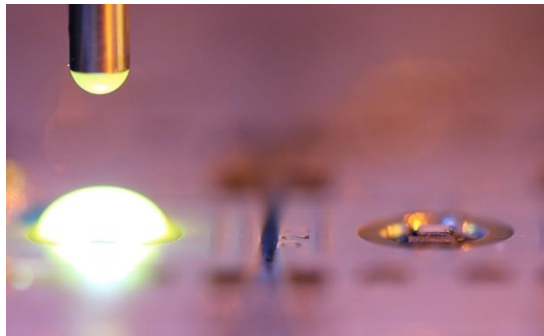
Curing inhibition at 23°C



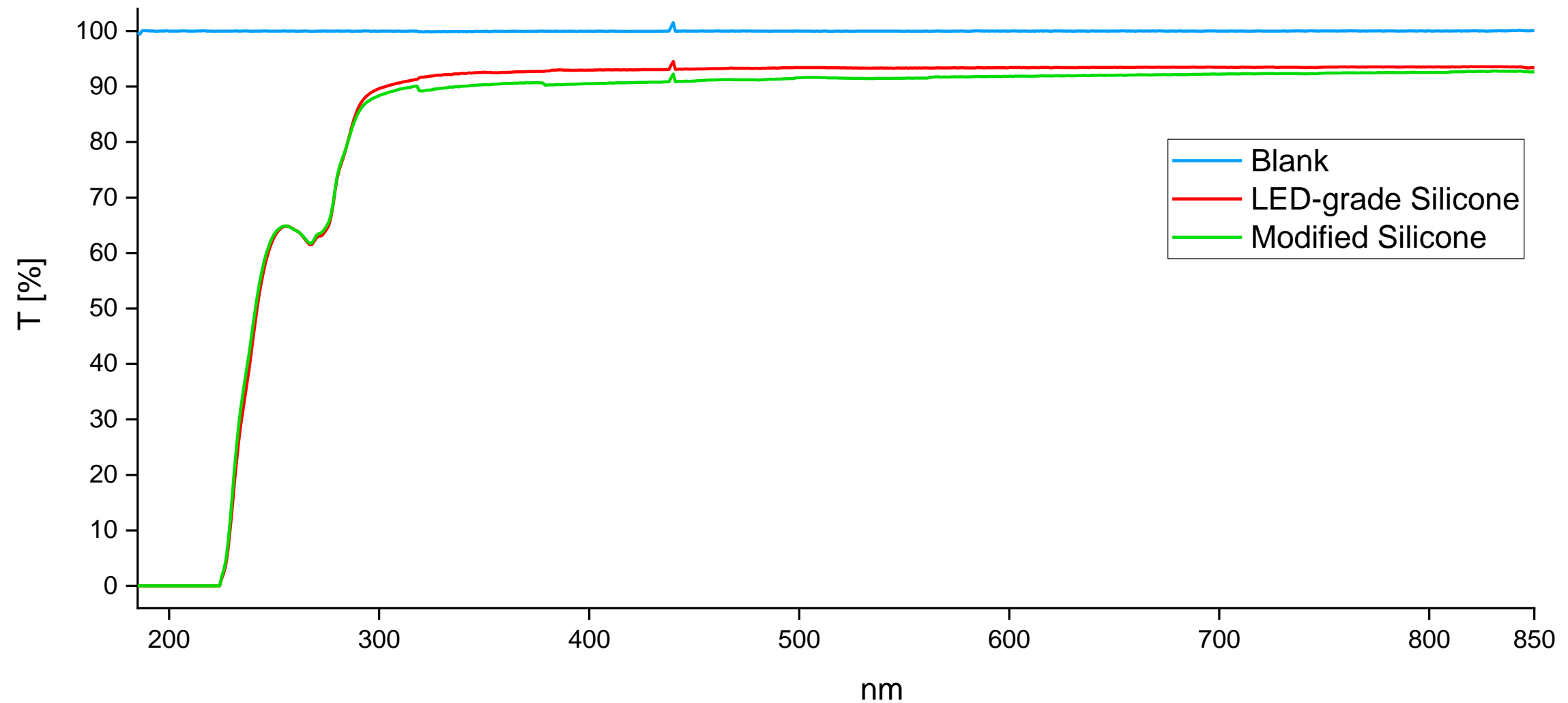
Supresil™ - novel shelf-stable silicones

- All physical and optical properties of the silicones stay unchanged
 - Low shrinkage
 - Unaltered storage modulus
 - No change in UV/VIS transmission („yellowing“)





UV/VIS of cast silicones (100 μm)



Cooperate with us

We can make your silicone shelf-stable with Supresil™

- Save time & cost for preparation
- Save expensive LED-grade silicone material
- Save the planet – Stop generating non-recyclable waste



Find out more about Supresil™ at

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