

Brighten Smarter with State-of-the-Art Materials!

Thermally Conductive Compounds for Lighting Applications

Your key benefits with LUVOCOM® TC and LUVOTECH® eco TC:

- **Cost Efficiency.** Plastic parts enable more efficient manufacturing and assembly with less efforts in post-processing and surface finishing such as painting. **Up to 30%** cost savings compared to aluminum die casting.
- **Design Flexibility.** Unlock new aesthetic designs with our broad polymer experience.
- **Functionality.** We can combine flame retardancy with thermal conductivity, chemical resistance, as well as electrical conductivity or insulation.
- **Weight Saving.** Our materials weigh up to seven times less than metal, simplify product handling and enable the design of lighter structures.
- **ECO friendly.** Use of recycled precursors for our LUVOTECH eco TC product line reduces carbon footprint by **up to 80%** vs. aluminum die casting. Together, for a brighter future!

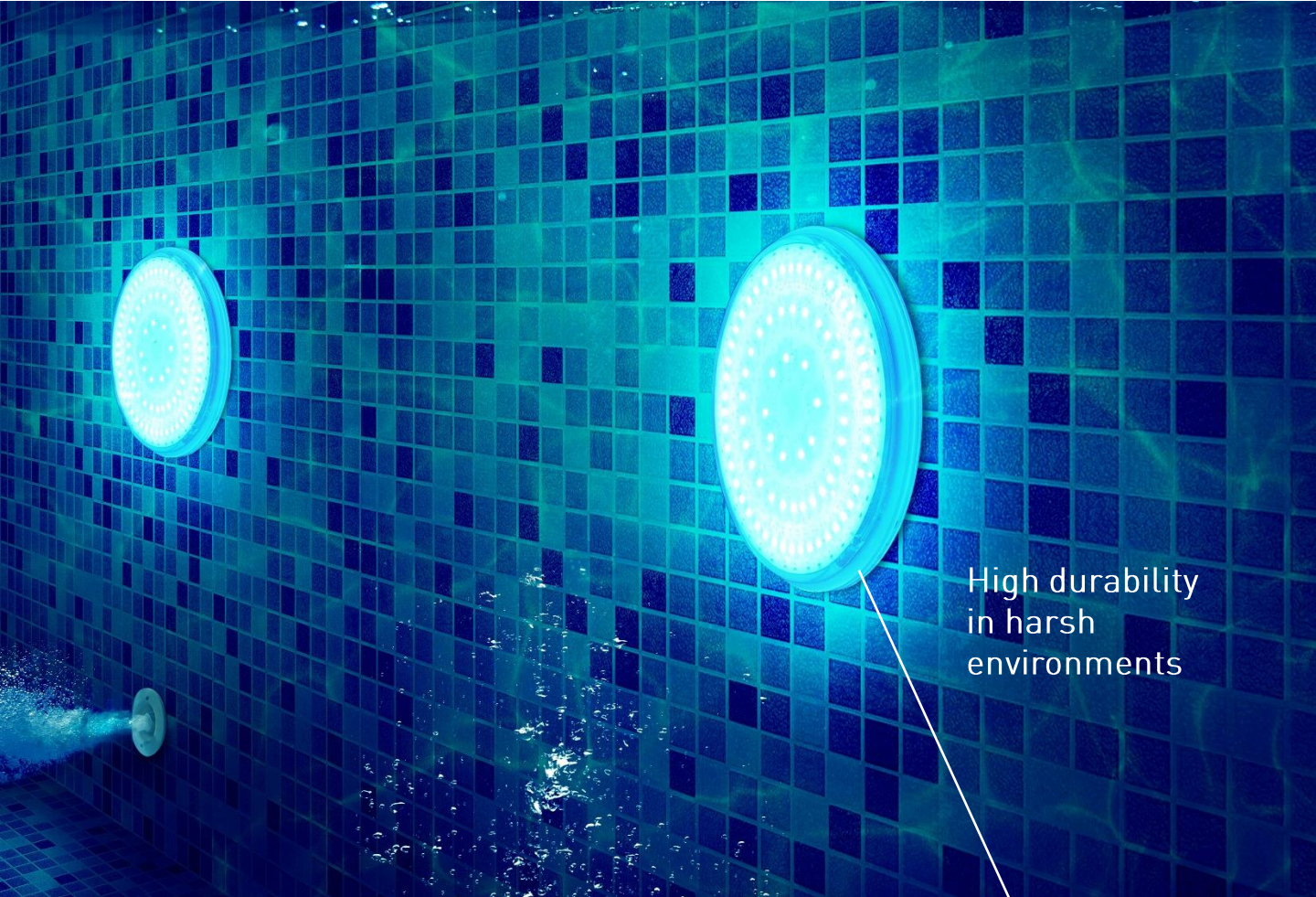
Data comparison of compounds based on virgin and recycled precursors

Properties	Method	LUVOTECH eco PA6 GF55 TC	Virgin PA6 GF55 TC
Tensile strength [MPa]	ISO 527	90	95
Tensile strain @ F max. [%]	ISO 527	0.7	0.7
Thermal conductivity [W/mK]	ISO 22007	18	18
Carbon footprint [kgCO ₂ eq/kg]	DIN EN ISO 14040/44 DIN EN ISO 14067	2.57	6.04



Pushing the boundaries of design innovation





High durability
in harsh
environments

Example of an application in pool and marina environments: Heat sinks for underwater LED lamps

Our durable LUVOCOM 1301-8312 (PPS) offers:

- Chemical and corrosion resistance
- Flame retardancy without any additives
- Tight tolerances
- No water uptake
- Thermal conductivity of 20 W/mK

→ These properties lead to higher product lifetime and greater reliability!



To maximize the potential of your products, we offer additional expertise, services & other portfolios such as:

- Increased strength and stiffness, with LUVOCOM LFT and LUVOCOM XCF, especially in construction components for event lighting and ATEX environments.
- Functional prototyping and small series production with our 3D printing materials.

Our local product specialists are at your service:



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