

**INDUSTRY
SOLUTIONS.**

**Material
Solutions.**

CHT

**SMART CHEMISTRY
WITH CHARACTER.**

ALPA-LSR 550201 AND ALPA-LSR 550202 FOR LASER MARKING

**PERMANENT LASER MARKING ON FINISHED
COMPONENTS**

MARKING, ENCODING AND LABELLING

Industrial marking systems

Product marking is getting more and more important, no matter if the storability, lot numbers, origin, traceability or a clear identification of products is required.

Thanks to their unique processing properties LSR is suited for numerous industrial fields and most versatile application fields. Due to the low compression set **ALPA-LSR** is the ideal material for creating complex shapes.

We specifically developed our products **ALPA-LSR 550201** and **ALPA-LSR 550202** to allow for a permanent laser marking on the finished component. Functional pigments from company Merck have been processed.

CHT LSR technology: convincing performance

- ▶ High dimensional stability
- ▶ High temperature resistance (-50 up to +200 °C)
- ▶ High UV-resistance and resistance to weathering
- ▶ High ozone resistance
- ▶ Very good mechanical properties
- ▶ Moulds with complex shapes are possible
- ▶ Effective production of high quantities through short cycle times
- ▶ Suited for food contact (complying with BfR & FDA)

Technical parameter

ALPA-LSR Laser	Viscosity in mPas (10 / s) [ISO 53 018]	Density (g / cm ³) [ISO 53 479 A]	Hardness (Shore A) [DIN 53 505]	Tensile strength (N / mm ²) [DIN 53 504 S 2]	Elongation at break (%) [DIN 53 504 S 2]	Tear resistance (N / mm) [ASTM D 624 Typ B]	Compression set [DIN 53 517]	BfR & FDA approved	Suited for colours
550201	300,000	1.12	50	8.5	380	35	12	√	white grey opaque
550202	300,000	1.12	50	7.5	300	35	12	√	transparent glowing

ALPA-LSR 550201 and ALPA-LSR 550202:

strong additional functions

- ▶ Forgery-proof
- ▶ Scratch-resistant
- ▶ No abrasion after a certain time or mechanical stress
- ▶ Print is resistant to environmental impact & chemicals
- ▶ Certified according to BfR & FDA
- ▶ Various laser markings are possible

Benefits of the process

- ▶ Permanent marking without subsequent cost
- ▶ Increased print flexibility
- ▶ High printing speeds
- ▶ Intensive contrasts
- ▶ Laser device can be easily and quickly installed downstream of the injection-moulding process (fully automatically)



In cooperation with:

REA JET

MERCK



Do you have any questions? Just give us a call or send us an email: material@cht.com

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