

ALCOM[®]

High Performance in Plastics

The word "ALCOM" in a bold, white, italicized sans-serif font, with a registered trademark symbol (®) to its upper right. The text is set against a background of overlapping, semi-transparent blue geometric shapes that create a sense of depth and movement.

HIGH PERFORMANCE IN PLASTICS

ALCOM® Lighting



ALCOM® LD provides illuminated symbols with sharp contours from every viewing angle. Custom color variants, light diffusion, transmission levels and high resistance to climatic changes are equally not a problem.

ALCOM® LD Light Diffusion

- Homogeneous, virtually loss-free light scattering
- Excellent luminous efficiency
- Avoids hot spots
- Sharp contours for illuminated symbols, irrespective of viewing angle



ALCOM® LG is a material for lightguides based on polycarbonate. It achieves the high transmission values of conventional light guiding technology and guarantees targeted luminous efficiency.

ALCOM® LG Light Guiding

- Optimum light transmission
- Excellent flow characteristics and demoldability
- High ductility and optimum functionality (integration of snap fits)



ALCOM® LB enables the grouping of separate light sources in a very confined space. For the same energy output, efficiency is increased and luminescence is improved with no leakage into adjacent chambers.

ALCOM® LB Light Blocking

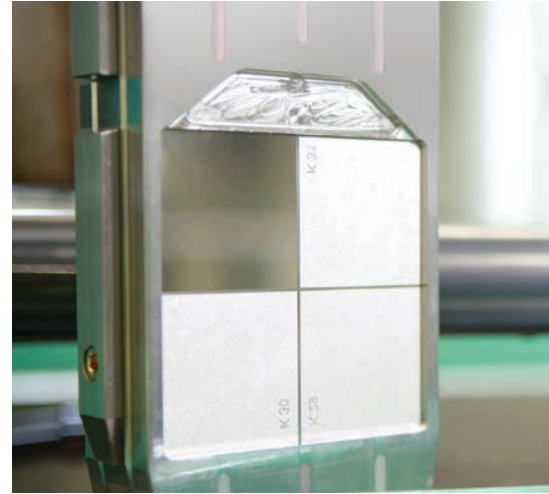
- Light transmission values < 0.7 % for 0.5 mm wall thickness
- Luminous reflectance up to 96 %
- Increased luminous efficiency



ALCOM® LC denotes colored transparent compounds with a special effect: Articles made of ALCOM® LC collect light on the surface and radiate it, in a targeted fashion to the edges.

ALCOM® LC Light Collecting

- Light collecting with bright edge-lighting effect
- Numerous color possibilities



ALCOM® Wear Protect



ALCOM® in brake systems

ALCOM® Wear Protect is the ideal material for friction bearings, bushings, gearwheels and numerous other technical components. The addition of wgeneration. Reinforcing fillers guarantee additional high levels of mechanical strength. Even plastic-plastic and metal-plastic friction pairings are possible.

Lubricated compounds for a long lifespan

- Reduced wear
- Improved slide and friction behavior
- Smoother running
- Increased lifespan
- Improved emergency running characteristics
- Reduced energy consumption

ALCOM® Metallic Effect



ALCOM® in electrical and electronic applications

ALCOM® Metallic Effect provides a high-quality appearance without visible weld lines or flow marks – but most importantly without time-consuming painting and the associated post-processing operations and costs. Our technology creates tinted metallic compounds for challenging design and construction concepts in every conceivable color variation.

Tinted compounds with special metallic effects

- Eliminate the need for additional painting
- Homogeneous surface
- Numerous color variations



ALCOM® E-Conductive

Conventional thermoplastics are good insulators, but can build up an electrostatic charge. In the event of a sudden discharge, this can interfere with electronic components. ALCOM® E-Conductive contains conductive additives that reduce the surface resistance and conduct electric charge away permanently. Sudden discharges are thus eliminated.

Permanent anti-static to electrically conductive compounds

- Protection against electrostatic charge
- Explosion protection
- Electromagnetic shielding



ALCOM® in ESD applications

ALCOM® T-Conductive

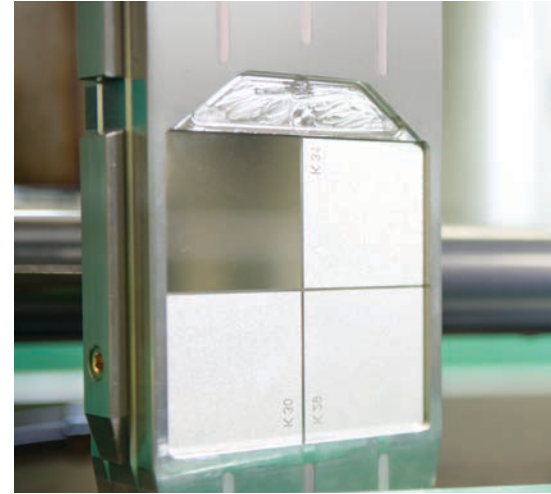
ALCOM® T-Conductive combines high thermal dissipation with the lightness and design freedom of plastic. Particularly in complex assemblies, this offers additional scope for optimizing thermal management. Depending on the requirement and field of application, ALCOM® T-Conductive is available either in thermally and electrically conductive form (TCE) or in thermally conductive and electrically insulating form (TCD).

Compounds with significantly improved thermal conductivity

- Efficient thermal dissipation
- Avoid thermal hot spots
- Protect sensitive components
- Increased lifespan
- Performance improvement
- Design freedom



ALCOM® in lamp holders



The ALCOM® portfolio simply delivers greater performance through its innovative products. This range of high-tech plastics offers huge potential for new developments and improvements for all your application needs.

The ALCOM® brand stands for special compounds with outstanding properties and virtually limitless application possibilities. ALCOM® grades replace conventional plastics, other traditional materials or even entire production processes. In scenarios that previously required metal components, painting processes and complex designs, a single moulded part made from ALCOM® is often all that is needed today. Further, whereas the design of a component used to be determined by the material, now every option is open to you.

High-quality fillers and additives in ALCOM®

- Aramid
- Biocides
- Carbon fiber
- Flitter
- Glass fiber
- Glass beads
- Graphite
- Hollow glass beads
- Conductive carbon black
- Light diffusers
- Metals
- Minerals
- Molybdenum disulfide
- Organic fillers
- PTFE
- Silicone oil
- Steel fiber
- UV absorbers
- etc.

The properties of all ALCOM® products can be individually tailored to meet your ideas and concepts. To do this, we work through all the steps involved in developing components together with you. We support you at very stage, from selecting materials, carrying out strength and stiffness calculations, conducting injection moulding simulations to designing your tools on-site and many more related know-how services – all the way to the final series approval.



CERTIFICATION

Our quality management system is certified in compliance with ISO/TS 16949:2002. The certificate is checked and renewed regularly by the German Society for Certification of Management Systems [Deutschen Gesellschaft zur Zertifizierung von Managementsystemen mbH (DQS)].

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