



LUVOCOM® Magnetically Detectable

LUVOCOM® Magnetically Detectable offers:

- Excellent detection of even the smallest particles
- Cost and Weight reduction potential
- Design Flexibility
- Easy to Process / Attractive Surface Finish
- Suitable for Food Contact

Applications

Magnetisable polymers have been around for a while, and can be moulded into complex shapes, then subsequently magnetised as a substitute for permanently-magnetic sinter magnets. Similarly, soft-magnetic customary to compound suitable hard or soft-magnetised powders or stainless steel fibres into the polymer. In the food industry stainless steel – and now polymers to an increasing degree – are may be used in containers, utensils, housings, scrapers and similar articles. Such parts do not always come into direct contact with the foodstuff itself, but they can contaminate the foodstuff as a consequence of damage to or fragmentation of the part. Accordingly, regulations have been put in place to ensure that all plastic parts that may come into contact with foodstuffs, are detectable and must be approved for use in the foodstuffs industry.



*Even the tiniest
of fragments
of soft-magnetic
LUVOCOM®
can be picked up
by magnets*

By virtue of combining soft-magnetic components with impact-resistant polymers, LUVOCOM®-development engineers have succeeded in producing materials that allow themselves to be detected by the regulation detector and sensing equipment that is present today in the food industry – even the tiniest particles of no greater than a few millimetres are detectable. The advantages are clear: Expensive stainless steel can be replaced immediately by new materials and this can lead to reduced energy costs in the transportation and conveying of components as a result of the use of lighter plastics.

Further developments are already being considered around these products, for instance, lubricated compounds for detectable bushes.



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Bespoke Materials

Drawing on our 25 years of experience in the field of compounding of speciality and high-performance materials, we are able to offer tailor-made products that meet the very precise demands of our customers. LUVOCOM® magnetic-detectable compounds can be further modified by reinforcement (Glass or Carbon Fibre) and other additives e.g. lubricants (for bushes).

We are initiating this development with unfilled PA 6. Similar modification of other polymers, e.g. PA 6.6, PA12, POM, PPA, PPS and PEEK will also be possible. The table below offers basic indicative technical data for two of our products. For more specific technical data and product information please contact us either directly or via your local distributor.

	Polymer	Tensile strength ISO 527 MPa	E-Modulus ISO527 GPa	Charpy Impact ISO 179 1eU kJ/m ²	Density ISO 1183 g/cm ³
LUVOCOM 3-8266	PA 6	65	4	30	1,67
LUVOCOM 3-8277	PA 6	65	3,5	40	1,46



Application Examples; conveying equipment; containers; bushes, storage cages

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