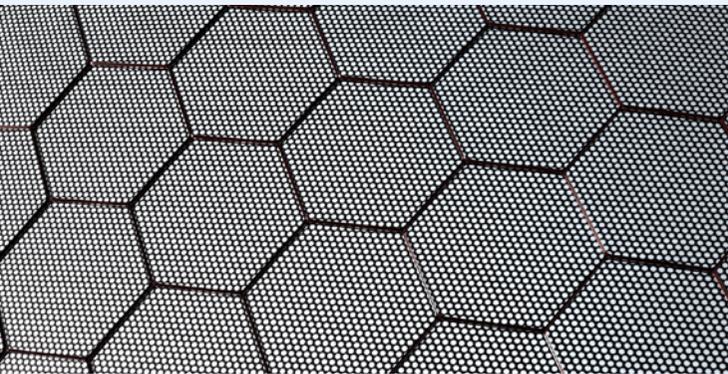


Examples of typical applications



Seat belt retractor cover



Speaker grill



Air vent wing spacer

한국엔지니어링플라스틱(주)
KOREA ENGINEERING PLASTICS CO.,LTD.

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KEPITAL LOF
Low Emission POM

LOF: Good for the environment and for your nose!

Reducing emissions of any kind is one of the big issues at the beginning of the 21st century. For years, automotive engineers have been working on environmentally friendly power systems with a small carbon footprint. Notions like "Low CO₂" or "Green Mobility" have changed from mere marketing instruments into signs of a distinct change in values towards sustainability. Stricter requirements of the vehicle as a whole result in stricter specifications for the materials used in the vehicle.

The emission limits set for components in passenger compartments can no longer be adhered to using unmodified polyacetal. The third generation of KEP's low-emission LOF (Low Odor & Formaldehyde) grades, however, clearly beats current OEM standards.

Portfolio: High performance over a wide range!

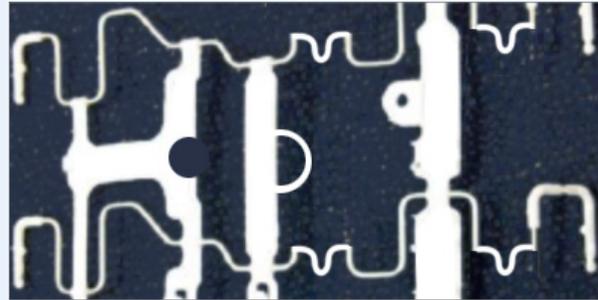
KEP can fall back on 10 years of experience in the development of low-emission POM copolymer qualities. A lot has changed since the first types of KEPITAL LOF emerged. Whereas unmodified standard grades were the only ones available at first, today's portfolio of KEPITAL LOF grades covers the entire product range. And our engineers keep researching into further lowering emissions to hardly measurable values - in order to always stay one step ahead of specifications.

KEPITAL LOF product range

Standard	F20-03 LOF, F30-03 LOF
High strength	F10-03H LOF
Impact modified	TE-21 LOF, TE-22 LOF, TE-23 LOF, TE-24 LOF
Friction & wear	TX-11H LOF, TX-31 LOF, F25-03HT LOF, TS-22H LOF
UV-resistant	F20-52 LOF
Glass fiber	FG2020 LOF

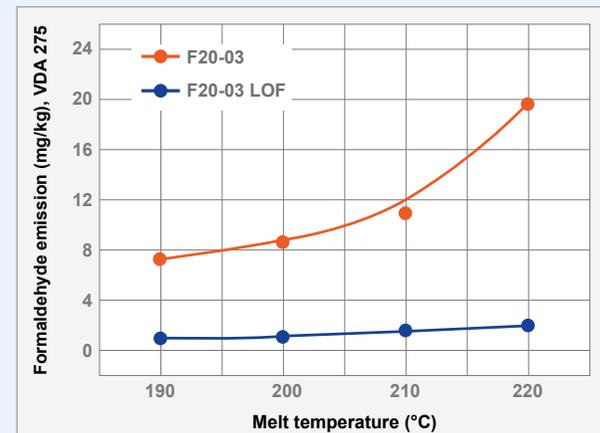
Applications: Have a good journey with KEPITAL LOF

KEPITAL LOF products are the perfect choice for polyacetal applications in passenger compartments. The classic areas include seat belt, window regulator and door latch systems. Various seat components such as spring bases, lumbar supports or headrests improve the convenience of driving.



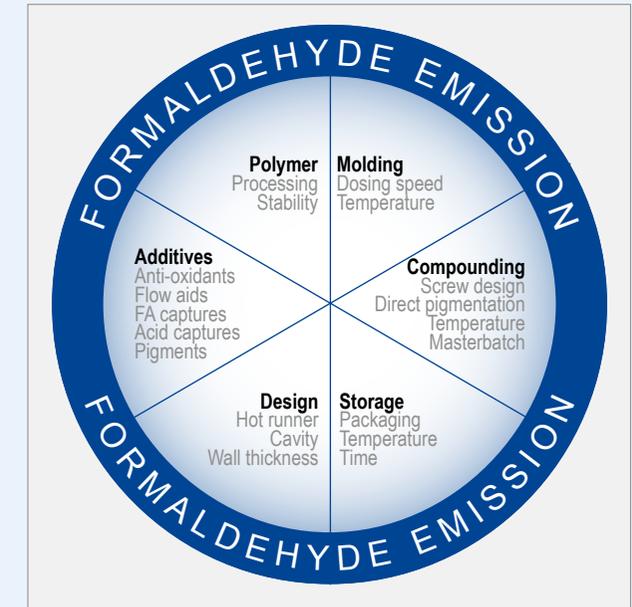
Gas emission: Lowest ppm results!

The bottle method pursuant to VDA 275 is the most common test used to measure POM emissions. It involves a test specimen being conditioned in a PE bottle. The amount of gas diffused into the water is analyzed afterwards by photometric or chromatographic means. The result is a mass-related emission reading shown as "mg/kg". Common OEM specifications require <2 mg/kg. At between 8 mg/kg and 10 mg/kg, the values for unmodified standard POM are clearly above automotive limits. KEPITAL F20-03 LOF has achieved <0.1 mg/kg!



Processing: Gentle and careful!

Choosing the right material in itself does not warrant that low-emission components are produced. In order to obtain the desired properties of finished parts, everybody along the supply chain is involved, e.g. material suppliers, designers, tool makers or injection moulding personnel.



Generally speaking, the material should be processed gently, under low shear and in an appropriate temperature range. Where pigmented products are concerned, choosing the right colour masterbatch will substantially affect later emission readings.

