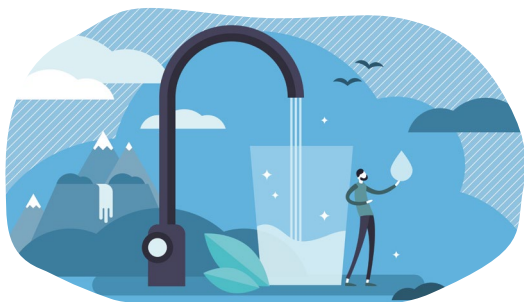




POKETONE™ the All-rounder

The polyketone (PK) combines various properties of other engineering plastics such as PA (polyamide), PBT (polybutylene terephthalate) and POM (polyoxymethylene) and is easy to process with short cycle times.



Exceptional Properties

- Semi-crystalline plastic
- Continuous service temperature -30 °C to +100 °C
- High impact strength
- Very good wear resistance
- Good tribological properties
- Exceptional barrier effect against oxygen
- Low moisture absorption
- Very good hydrolysis resistance
- Very good chemical resistance

Free from the Following Harmful Substances

- Bisphenol A (BPA)
- Bisphenol F (BPF)
- Bisphenol S (BPS)
- Formaldehyde
- Perfluorooctanoic acid (PFOA)
- Perfluorooctane sulfonic acid (PFOS)
- Polycyclic aromatic hydrocarbons (PAH/PAH)

Product Compliances

| Drinking water | | | | | | | Food contact | | | Toys |
|----------------|---------|---------------------|---|------------------|-----|-------------|----------------|--------------|-------------|----------------------|
| Grades | Color | DVGW standard W 270 | KTW cold water (23 °C) warm water (60 °C) hot water (85 °C) | WRAS up to 85 °C | ACS | NSF/ANSI 61 | EU No. 10 2011 | FDA FCN 1847 | NSF/ANSI 51 | EN 71 part 3, part 9 |
| M330F | natural | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| M630F | natural | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| M730F | natural | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |



| Grades | Color | Melt flow index ASTM D1238 240 °C kg/2.16 kg | Density ISO 1183 | Tensile strength ISO 527-1 | Flexural strength ISO 178 | Flexural modulus ISO 178 | Charpy notched impact strength 23 °C ISO 179/1eA | Flammability UL 94 |
|--------|---------|--|------------------------|-------------------------------|------------------------------|-----------------------------|---|--|
| M330F | natural | 60 g/10 min | 1.24 g/cm ³ | 60 MPa | 57 MPa | 1,400 MPa | 8 kJ/m ² | HB (0.8 / 1.5 / 3.0 mm) Yellow Card E163907 |
| M630F | natural | 6 g/10 min | 1.24 g/cm ³ | 58 MPa | 53 MPa | 1,250 MPa | 15 kJ/m ² | HB (0.8 / 1.5 / 3.0 mm) Yellow Card E163907 |
| M730F | natural | 3 g/10 min | 1.24 g/cm ³ | 48 MPa | - | - | 19 kJ/m ² | - |

Application Examples with Polyketone

Gears, bevel gears, sealing elements, plain bearings, conveyor belts, screw fittings, stoppers, containers, kitchen utensils, brewing unit components and many more.

People. Think. Plastics.

We work with you to find plastic solutions for your food and drinking water contact applications. Benefit from our application-technical support. We aim to meet your requirements with the right material, service and customised logistics concepts.

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