

POKETONE™

For food contact, drinking water applications and toys



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 polymer
- 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)
- Per- and polyfluoroalkyl substances (PFAS)

Product compliances

Grades	Color	Drinking water					Food contact			Toys
		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	✓	✓	✓	✓	✓	✓	✓	✓	✓

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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 ²	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 ²	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 ²	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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