



POKETONE™ the all-rounder

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



Exceptional properties

- Aliphatic polyketone with a melting point of 220 °C
- 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
- Gamma and steam sterilisable

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

Drinking water						Food contact			Toys	Health care
Grades	Processing	KTW	WRAS	ACS	NSF/61	EU Nr. 10/2011	FDA*	NSF/51	EN 71 part 3	USP Class VI ISO 10993
M330F	Injection moulding	✓	✓		✓	✓	✓	✓	✓	✓
M630F	Extrusion/Injection moulding	✓	✓	✓	✓	✓	✓	✓	✓	✓
M730F	Extrusion	✓	✓		✓	✓	✓	✓	✓	✓
M710F	Extrusion/Film extrusion		✓			✓	✓			✓
M33FG6B	Injection moulding				✓	✓	✓			

*Infant formula and human milk are excluded.



Grades	Color	Melt flow index 240 °C kg/2.16 kg ASTM D1238 ISO 1183	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 PK unreinforced, High-flow, Injection moulding	natural	60 g/10 min 56 ml/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 PK non-reinforced, Food Contact, Injection moulding	natural	6 g/10 min 5.6 ml/10 min	1.24 g/cm ²	58 MPa	53 MPa	1,250 MPa	17 kJ/m ²	HB (0.8/1.5 /3.0 mm) Yellow Card E163907
M730F PK non-reinforced, Food Contact, Extrusion	natural	3 g/10 min 2.8 ml/10 min	1.24 g/cm ²	56 MPa	50 MPa	1,200 MPa	20 kJ/m ²	HB (0.8 mm)
M710F PK non-reinforced, Food Contact, Extrusion, Film extrusion	natural	3 g/10 min 2.8 ml/10 min	1.22 g/cm ²	43 MPa	40 MPa	900 MPa	14 kJ/m ²	HB (0.8 mm)
M33FG6B PK 30 % glass fibre reinforced, Food Contact, Injection moulding	natural	14 g/10 min 13 ml/10 min	1,46 g/cm ²	140 MPa	185 MPa	6,150 MPa	12 kJ/m ²	HB (0.8/1.5/3.0 mm) Yellow Card E163907

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.

Together with you, we develop customised plastic solutions for your applications in the areas of food and drinking water contact, for toys and in the healthcare sector. Benefit from our technical application advice. We implement your requirements with the right material - including service and customised logistics concepts.

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