



## 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
<b>M330F</b> PK unreinforced, High-flow, Injection moulding	natural	60 g/10 min 56 ml/10 min	1.24 g/cm <sup>2</sup>	60 MPa	57 MPa	1,400 MPa	8 kJ/m <sup>2</sup>	HB (0.8/1.5/3.0 mm) Yellow Card   E163907
<b>M630F</b> PK non-reinforced, Food Contact, Injection moulding	natural	6 g/10 min 5.6 ml/10 min	1.24 g/cm <sup>2</sup>	58 MPa	53 MPa	1,250 MPa	17 kJ/m <sup>2</sup>	HB (0.8/1.5 /3.0 mm) Yellow Card   E163907
<b>M730F</b> PK non-reinforced, Food Contact, Extrusion	natural	3 g/10 min 2.8 ml/10 min	1.24 g/cm <sup>2</sup>	56 MPa	50 MPa	1,200 MPa	20 kJ/m <sup>2</sup>	HB (0.8 mm)
<b>M710F</b> PK non-reinforced, Food Contact, Extrusion, Film extrusion	natural	3 g/10 min 2.8 ml/10 min	1.22 g/cm <sup>2</sup>	43 MPa	40 MPa	900 MPa	14 kJ/m <sup>2</sup>	HB (0.8 mm)
<b>M33FG6B</b> PK 30 % glass fibre reinforced, Food Contact, Injection moulding	natural	14 g/10 min 13 ml/10 min	1,46 g/cm <sup>2</sup>	140 MPa	185 MPa	6,150 MPa	12 kJ/m <sup>2</sup>	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.

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