

# POKETONE™

The all-rounder



HYOSUNG began developing polyketone (PK) in 2004. After 10 years of research and development, the material was successfully commercialised in 2014.

HYOSUNG CHEMICAL produces this tough, semi-crystalline thermoplastic under the POKETONE™ brand in Yongyeon, Ulsan, South Korea, with a capacity of 50,000 tonnes per year. Thanks to its special properties, polyketone can be used in a wide range of segments, including applications involving contact with drinking water and food.

Polyketone is an excellent complement to engineering plastics such as PA, POM and PBT.

## Exceptional properties

**Hydrolytically stable** – POKETONE™ is hydrolysis resistant. It hardly absorbs water and its technical properties remain at a high level.

**High wear resistance and very good tribological properties** – POKETONE™ has excellent wear resistance compared to other engineering polymers and reduces various noise problems.

**Exceptional barrier effect** – The gas and hydrocarbon barrier properties of POKETONE™ are outstanding and at the highest level compared to other polymeric materials.

**High impact strength** – POKETONE™ takes advantage of the flexible CO/olefin polymer matrix.

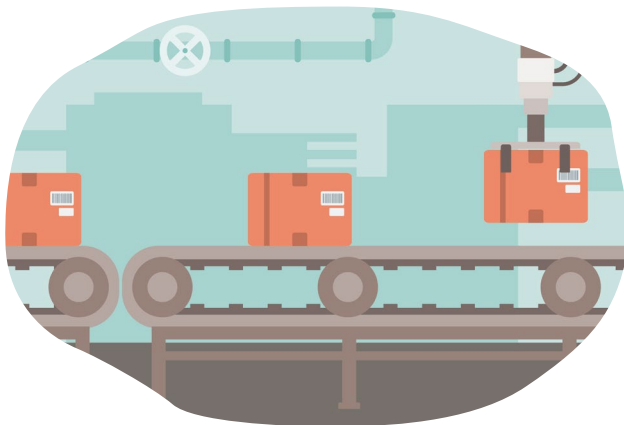
**Very good chemical resistance** – POKETONE™ is highly resistant to “typical” automotive media, hydro-carbon solvents, salts and weak acids and alkalis.

## People. Think. Plastics.

We work with you to find the plastic solutions for your polyketone (PK) applications. Benefit from our technical application advice. We implement your requirements with the right material – including service and tailor-made logistics concepts.

## Industries

POKETONE™ is an exceptional product which is predestined for applications in the fields of electrics & electronics, consumer goods, conveyor systems, mechanical engineering, vehicle construction and e-mobility.





Grades	Properties	Melt-Flow-Index 240 °C/2.16 kg ASTM D1238, ISO 1133	Color	FDA	NSF51	NSF61	EU 10/2011	KTW W270	ACS	WRAS	Burning behaviour UL 94	UL Yellow card E163907
<b>Poketone unreinforced</b>												
<b>M330F</b>	High-flow injection moulding grade	60 g/10 min, 56 ml/10 min	natural	✓	✓	✓	✓	✓	✓	✓	HB (0.8/1.5/3.0 mm ALL)	✓
<b>M630F</b>	Injection moulding grade	6 g/10 min, 5.6 ml/10min	natural	✓	✓	✓	✓	✓	✓	✓	HB (0.8/3.0 mm ALL)	✓
<b>M630V</b>	Injection moulding grade, UV-stabilised	6 g/10 min, 5.6 ml/10min	natural									
<b>M63VX0A</b>	UV-stabilised	4 g/10 min	black									
<b>M730F</b>	Extrusion grade	3 g/10 min, 2.8 ml/10 min	natural	✓	✓	✓	✓	✓	✓	✓	HB (0.8 mm)	
<b>Poketone reinforced</b>												
<b>M33FG3A</b>	Injection moulding grade, 15 % glass fibre	24 g/10 min, 22 ml/10 min	natural	✓		✓		✓		✓		
<b>M33AG6A</b>	Injection moulding grade, 30 % glass fibre	14 g/10 min, 13 ml/10 min	black								HB (0.8/1.6/3.2 mm ALL)	✓
<b>Poketone flame-retardant</b>												
<b>M33AF2Y</b>	High-flow injection moulding grade	34 g/10 min, 32 ml/10 min	natural/black	Contains no halogenated or red phosphorus flame retardants							V-0 (0.8/1.6/3.0 mm ALL)	✓
<b>M33AG2Y</b>	Injection moulding grade, 5 % glass fibre	25 g/10 min, 23 ml/10 min	black								V-0 (0.8/1.6/3.0 mm ALL)	✓
<b>M33AA2Y</b>	Injection moulding grade, 30 % glass fibre	8 g/10 min, --	natural/black								V-0 (0.8 mm)	✓
<b>Poketone modified</b>												
<b>M33AS1A</b>	Injection moulding grade modified with silocone	49 g/10 min, 46 ml/10 min	black	Anti-squeak and wear-resistant								

## Further products and information on request

For special color requirements, we offer not only a comprehensive masterbatch color range but also individual product ideas through our sister company AF-COLOR, branch of AKRO-PLASTIC GmbH. Would you like to get to know AF-COLOR and its expertise? Join the discussion!

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