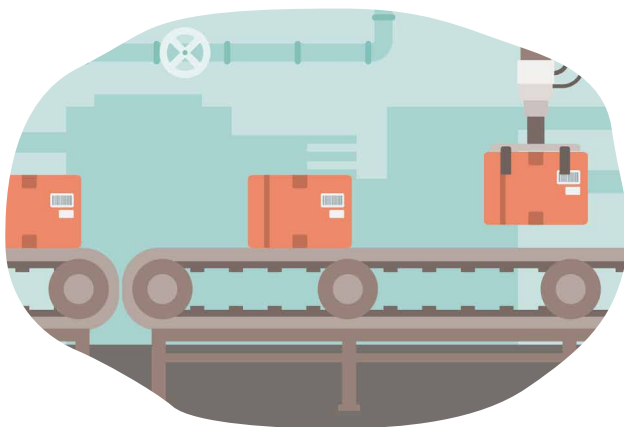


POKETONE™ the All-rounder

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 name 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.

Your partner for:



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
Poketone unreinforced												
M330F	High-flow injection moulding grade	60 g/10 min, 56 ml/10 min	natural	✓	✓	✓	✓	✓	✓	✓	HB (0.8/1.5/3.0 mm ALL)	✓
M330S	High-flow injection moulding grade, UV-stabilised	60 g/10 min, 56 ml/10 min	natural								HB (0.8 mm)	
M630F	Injection moulding grade	6 g/10 min, 5.6 ml/10min	natural	✓	✓	✓	✓	✓	✓	✓	HB (0.8/3.0 mm ALL)	✓
M630V	Injection moulding grade, UV-stabilised	6 g/10 min, 5.6 ml/10min	natural									
M730F	Extrusion grade	3 g/10 min, 2.8 ml/10 min	natural	✓	✓	✓	✓	✓	✓	✓	HB (0.8 mm)	
M730R	Extrusion grade, thermally stabilised	3 g/10 min, 2.8 ml/10 min	natural									
Poketone reinforced												
M33FG3A	Injection moulding grade, 15 % glass fibre	24 g/10 min, 22 ml/10 min	natural	✓		✓		✓				
M33AG6A	Injection moulding grade, 30 % glass fibre	14 g/10 min, 13 ml/10 min	black								HB (0.8/1.6/3.2 mm ALL)	✓
Poketone flame-retardant												
M33AF2Y	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)	✓
M33AG2Y	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)	✓
M33AA2Y	Injection moulding grade, 30 % glass fibre	8 g/10 min, --	natural								V-0 (0.8 mm)	✓
Poketone modified												
M33AS1A	Injection moulding grade with silicone modified	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 not only offer a comprehensive masterbatch color range through our sister company AF-COLOR, a branch of AKRO-PLASTIC GmbH, but also individual product ideas. Would you like to get to know AF-COLOR and its expertise? Join the discussion!

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