

# 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

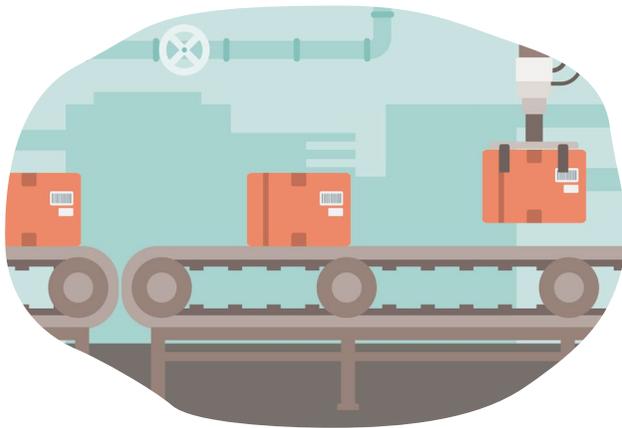
**Hydrolytically stable** – POKETONE™ is hydrolysis resistant. It hardly absorbs water and its technical properties remain at a high level.

**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.



Grades	Properties	Melt flow index 240 °C/2.16 kg ASTM D1238, ISO 1133	Color
Standard			
M330A	High-flow injection moulding grades, UL 94 HB (0,8–3,0 mm)	60 g/10 min, 56 ml/10 min	natural
M630A	Injection moulding grades, UL 94 HB (0,8–3,0 mm)	6 g/10 min, 5,6 ml/10min	natural
M630V	Injection moulding grades, UV-stabilised	6 g/10 min, 5,6 ml/10min	natural
M33AG3A	15% glass fibre, Injection moulding grades	24 g/10 min, 22 ml/10 min	natural
M730R	Extrusion grades	3 g/10 min, 2,8 ml/10 min	natural
Food, drinking water, cosmetics and healthcare			
M330F-S	High-Flow injection moulding grades, FDA (FCN 1847), EU 1935/2004, 2023/2006, 10/2011 and more	60 g/10 min, 56 ml/10min	natural
M630F	Injection moulding grades, FDA (FCN 1847), EU 10/2011, KTW, WRAS, ACS, NSF STD-61 and more	6 g/10 min, 5,6 ml/10min	natural
M730F	Extrusion grades, FDA (FCN 1847), EU 10/2011, KTW, WRAS, ACS, NSF STD-61 and more	3 g/10 min, --	natural
Specialties			
M33AF2Y-BK0	High-flow injection moulding grades, flame-retardant UL 94 HB V-0 (0,8–3,0 mm)	34 g/10 min, 32 ml/10 min	black
M33AS1A-BK0	Injection moulding grades, modified with silicone, noise-reducing and wear-resistant	49 g/10 min, 46 ml/10 min	black
M63VX0A-BK0	Extrusion grades, UV-stabilised	4 g/10 min, --	black

## 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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