SABIC® POM
SABITAL™

CHEMISTRY THAT MATTERS™

POLYOXYMETHYLENE (POM) is a semi-crystalline thermoplastic material commonly referred to as **acetal** or **polyacetal**. SABIC® POM is suitable for highly engineered applications that require precision and durability, may be used to replace metal in many applications.

KEY PRODUCT PROPERTIES

HIGH STRENGTH AND STIFFNESS
High mechanical strength and rigidity

EASE OF MACHINING
Wide useful temperature range

EXCELLENT WEAR PROPERTIES
High resistance to repeated impacts

SELF-LUBRICATION
Low friction coefficient

SUPERIOR CHEMICAL RESISTANCE
EXCELLENT RESISTANCE TO moisture, fuel, solvents and many other chemicals

GOOD DIMENSIONAL STABILITY
Outstanding long-term fatigue endurance

SABITAL™ is a glass-fiber reinforced POM at different concentrations to enhance the mechanical and thermal properties of the product.

Next to the properties of the unfilled POM, glass-fiber reinforced POM may offer:

SUPERIOR RIGIDITY, HARDNESS & TENSILE STRENGTH
(compared to unmodified copolymer)

IMPROVED MOLD SHRINKAGE

EXCELLENT CREEP RESISTANCE

LOWER COEFFICIENT OF EXPANSION

EXCELLENT SOLVENT RESISTANCE

KEY APPLICATIONS

AUTOMOTIVE
- Seat belt buckle
- Door handle
- Speaker grill
- Fuel cap
- Fuel pump

PLUMBING & IRRIGATION
- Pipe fitting
- Water sprinkler
- Shower head

ELECTRONIC APPLIANCES
- Washing machines
- Gears
- Printers
- Keyboard push buttons

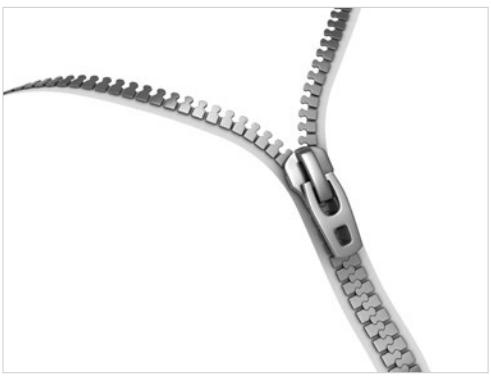
CONSUMER ARTICLES
- Zippers
- Sporting goods
- Toys

SABIC® POM PORTFOLIO

	SABIC Grade	Melt Index (g/10 min)*	Density (g/cm3)	Characteristics
SABIC® POM	POM 30RE	2.8	1.41	Stiff-flowing, voids free copolymer grade, suitable for extrusion. Good chemical resistance to solvents, fuel and strong alkalis in addition to its good hydrolysis resistance.
	POM 30S	3	1.41	Stiff flowing copolymer grade, suitable for injection molding and extrusion. High impact toughness. Good tracking resistance over range of temperature.
	POM 90S	9	1.41	General purpose standard injection molding grade. High rigidity, toughness and hardness.
	POM 140S	14	1.41	Easy flowing injection molding grade for precision molded parts and thin-walled molded parts with high rigidity, high toughness and hardness.
	POM 280S	27	1.41	Very easy flowing injection molding grade. High rigidity and hardness.
	POM 460S	45	1.41	Extremely Easy flowing injection molding grade for thin-walled precision molded parts with complicated flowpath-wall thickness relation. Permits processing at reduced temperature and shorter cycle times.
SABITAL™	90GV10	8.4	1.48	Glass fiber compounded grade for injection moulding applications. Good flow and combination of strength and stiffness. Good dimensional stability.
	90GV20	7	1.57	Glass fiber compounded grade for injection moulding applications. Moderate flow with higher strength, stiffness, hardness, and high HDT. Good dimensional stability
	90GV30	6.4	1.60	Glass fiber compounded grade for injection moulding applications. Combination of very high strength, very high stiffness, hardness, and high HDT. Good dimensional stability.

*Please refer to safety data sheet (SDS) separately for information on EHS general guidelines and precautions during handling and storage of SABIC® POM on www.sabic.com

Please refer to safety data sheet & FDA certificate in website.



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