

Polyacetal (POM) Granules

Product Description

Polyacetal (POM), also known as polyoxymethylene, is an engineering thermoplastic offering high stiffness, mechanical strength, dimensional stability, and excellent wear resistance. Its low coefficient of friction, good fatigue resistance, and low moisture absorption make it suitable for precision-engineered components requiring consistent performance and dimensional accuracy. POM is available in homopolymer and copolymer grades and is commonly processed by injection molding and extrusion.

Application Areas

- Precision gears, bushings, bearings, rollers, and sliding components.
- Automotive components such as clips, fasteners, fuel-system parts, and mechanical fittings.
- Electrical and electronic components including switches, connectors, housings, and moving mechanisms.
- Industrial components requiring low friction, wear resistance, and good dimensional stability.
- Appliance and consumer parts requiring stiffness, durability, and good surface finish.

Key Benefits

- High stiffness and mechanical strength
- Excellent wear and abrasion resistance
- Low coefficient of friction and good sliding

performance

- Good fatigue and creep resistance
- High dimensional stability and low moisture absorption
- Good resistance to many fuels, oils, solvents, and chemicals
- Good processability in injection molding and extrusion

Safety, Handling & Storage

Polyacetal (POM) is typically supplied in pellet form and packed in durable polyethylene bags or multi-layer packaging. The material should be stored in its original sealed packaging in a dry, cool, and well-ventilated area. Direct exposure to moisture, dust, sunlight, and heat sources should be avoided.

To maintain product quality, packaging should remain sealed until use. If the material has been exposed to moisture or adverse storage conditions, handling and drying should follow the recommendations for the specific grade. During processing, adequate ventilation and proper temperature control should be maintained, and overheating should be avoided.

Product Specification

Property	Unit	Value	Method/Standard
Melt Flow Index (MFI) (190 °C / 2.16 kg)	g/10min	9	ASTM D1238
Ash Content	% (w/w)	0.1	ASTM D5630