

POM acetal combines high stiffness, low friction and excellent dimensional stability. It machines cleanly to tight tolerances and is the first choice for precision parts such as gears, bushes, valve parts and fittings.

Specification

Material	POM copolymer (POM-C); homopolymer (POM-H) on request
Standard Colours	Natural (white), black
Forms	Sheets, round rods, tubes; cut-to-size blanks and machined parts
Sheet Thickness	Approx. 1 mm to 100 mm
Rod Diameter	Approx. 6 mm to 250 mm
Standard Lengths	Rods 1 m / 3 m; sheets 1000 x 2000 mm, or cut to size

Material Properties (typical values)

Property	Typical Value
Density	1.41 g/cm ³
Tensile strength	65 - 70 MPa
Elongation at break	30 - 40%
Tensile modulus	2,800 - 3,100 MPa
Hardness	Shore D 81
Notched impact (Charpy)	6 - 7 kJ/m ²
Melting point	approx. 165°C (copolymer)
Service temperature	-50°C to +100°C continuous
Water absorption (saturation)	approx. 0.8%
Coefficient of friction	0.25 - 0.35 (dry on steel)
Dielectric strength	approx. 20 kV/mm

Typical Applications

Precision gears, bushes and bearings, valve seats and bodies, pump parts, fasteners, conveyor and food-machinery components, insulating parts.

Selection Note

Food-contact grades are available. POM is not recommended for continuous contact with strong acids or for outdoor UV exposure without a black UV-stabilised grade.

How to Order

Send the material, grade, colour, form, dimensions (thickness / diameter, width, length) and quantity, or a drawing for machined parts, to Diode Trading EST at www.diode.sa or +966 51 083 8213. Material test certificates are available on request.

Notice: Values are typical and indicative, based on common industry grades. Exact grade, size, tolerance and performance are confirmed on quotation and against the supplier or manufacturer data and material test certificate for each batch. This sheet is not a warranty. Contact Diode Trading EST to confirm availability and specification for your application.