

POM white FDA

Copolymer, based on methylenoxide – Polyoxymethelene / Polyacetal / POM-C

Our POM products are characterized by a high mechanical strength, good dimensional stability and outstanding machinability (short chips facilitate processing on CNC machines). These factors have qualified POM as a technical polymer which can often be used instead of metals, resulting not only in technical improvements but also enabling considerable cost reductions.

Material Code: 0700G

MECHANICAL PROPERTIES

Yield stress / stress at break	DIN	EN ISO 527-2	MPa	70
Elongation at break	DIN	EN ISO 527-2	%	35
Tensile Modulus of elasticity	DIN	EN ISO 527-2	MPa	3000
Charpy impact strenght	DIN	EN ISO 179	kJ/m ²	>140

THERMAL PROPERTIES

Coefficient of thermal expansion			1/K*10 ⁶	120
Upper service temperature, short term			°C	140
Upper service temperature, continuous			°C	100
Flammability according to UL94			3 mm	HB

ELECTRICAL PROPERTIES

Dielectric strength	DIN	EN IEC 60243	kV/mm	20
Volume resitivity	DIN	DIN EN 62631	Ω*cm	>10 ¹⁴
Surface resitivity	DIN	DIN EN 62631	Ω	>10 ¹³

GENERAL PROPERTIES

Density	DIN	1183	g/cm ³	1,41
Waterabsorption, saturation in water at 23°C	DIN	EN ISO 62	%	0,8

The outstanding properties of semi-finished products made of POM are:

- high strength
- good toughness, even at low
- temperatures
- good elasticity
- good dimensional stability
- low water absorption
- good machinability
- good sliding friction properties
- good chemical resistance (particularly
- against strongly basic media)
- good recyclability