POM

Description

The POM(Polyoxymethylene) commonly referred to as Delrin, Acetal, Polyacetal and Polyformaldehyde. The material has excellent physical and chemical properties to serve a wide range of applications. POM is very stable in wet and dry environments and is recommended for precision and close tolerance parts. POM has very low moisture absorption compared to standard nylons and is also FDA approved.

Application

Mechanical gears, sliding and guiding elements, housing parts, springs, chains, screws, nuts, fan wheels, pump parts, valve bodies.

Availability

Sheet: 1200 x 600 mm, 1220 x 1000 mm.

Rod: 2 mm ~ 250 mm.

Tube: 20 mm ~ 350 mm

Color: Nature white, Black

Specification Data Sheet

Properties/Items	Method	Unit	POM
Density	ISO 1183 / A	g/cm^3	1.5
Water Absorption	ISO 62	%	0.24
Tensile strength	ISO 527	MPA	66 min.
Compressive strength perpendicular	ISO 604	MPA	23 min.
Impact strength	ISO 179-1	kJ/m^2	no break
Impact strength (Charpy) Notched	ISO 179-1	kJ/m^2	8 min.
Electric strength perpendicular	IEC 60243-1 (23°C)	KV/mm	20 min.
Breakdown voltage parallel	IEC 60243-1 (90°C in oil)	KV	45 min.
Volume resistance	IEC 60093	Ω	10^{14} min
Specific surface resistance	IEC 60093	Ω	10^{13} min
Comparative tracking index CTI	IEC 60112	CTI	600
Melting temperature	ISO 11357	°C	165
Flame Retardant	UL 94		HB

All information given here on the results of experiments performed with all due care in the laboratories. It does not in any way reduce the responsibility of the user for carrying out further tests in order to ensure successful processing and use in specific applications.

RoHS Declaration: This material does not contain any substances of very high concern as listed in the EU directive 2011/65/EU, article 4, paragraph 1.

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