

POM POLYACETAL

The acetal resin is a semi-crystalline polymer with unique properties such as very specific mechanical resistance, the rigidity, the good Sliding properties and wear resistance, finally has a great workability.

It has a low resistance to abrasion, especially in dirty and dusty environments, not self – extinguishing, little resistant to UV radiation, the effect of UV radiation with oxidation it leads to the alteration of the original color.

Technical details: Raw Material acetal resin (pom): standard color black, blue, white.

Specific Gravity: 1.41



MECHANICAL PROPERTIES

Temperature of use	Density	Yield Stress	Breakdown Voltage	Modulus of elasticity (tension)	Modulus of elasticity (tension)	Modulus of elasticity (bending)	Hardness Test	Breaking Strength	Resistance Elongation	Wear Creep
C°	g/cm³	Mpa	Mpa	%	MPa	MPa	MPa	MPa	μ/km	
100	1,41	62		30	2700		145	40	13	8,9

THERMAL PROPERTIES

Melting Temperature	Glass Transition Temperature	Hot Dimensional Stability (met. A)	Hot Dimensional Stability (met. B)	Use Temperature Limit	Thermal Conductivity	Heat Capacity	Coefficient of Thermal Expansion
C°	C°	C°	C°	C°	W/K.m	J/K.m	10 1/K
165	-60	110	160	140	0,31	1,5	10

ELECTRICAL PROPERTIES

Constant Dielectric	Dielectric Loss Factor	Specific Bulk Resistivity	Surface Resistivity	Rigidity Dielectric	Resistance to Leakage Current
abs	Tan δ	Ω.cm	Ω	kV/mm	class
3,5	0,003	10 ¹⁴	10 ¹⁴	>50	KA 3c

VARIOUS PROPERTIES

Moisture Absorption	Water Absorption until Saturation	Specific Bulk Resistivity
%	%	
<0,3	0,5	HB