

PETP POLYETHYLENE TEREPHTHALATE

Arnite Polyethylene Terephthalate

PETP is a semi crystalline nylon reinforced polyester thermal dimensional stability similar at acetal resin and with a wear resistance worthy of Nylon.

Suitable for use for precision mechanicals parts subjected to great loads and in abrasive environments.

Technical details: Polietilenereteflatato Raw Material(PET) : Standard color black, white.

Specific Gravity:1.39



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	
110	1,37	88			3200		95		13	0,35

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
255	70	95	170	170	0,24	1,1	7

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
3,2	0,0021	10 ¹³	10 ¹⁵	60	KC 350

VARIOUS PROPERTIES

Moisture Absorption	Water Absorption until Saturation	Specific Bulk Resistivity
%	%	
0,25	0,5	HB