

PE POLYETHYLENE

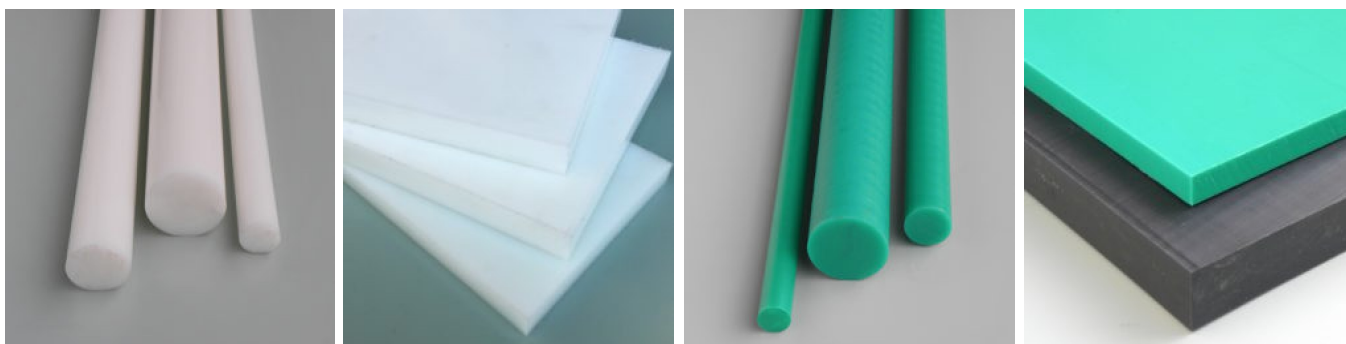
Polyethylene (PE)

The characteristics of PE are its high resistance to chemical agents, acids, alkalis, Alcohol, benzene, salt solutions, the low water absorption and good electrical properties.

Surface of PE can be printed, painted or glued using rollanti only after prior oxidation plasma or glow discharge, oxidizing flame, ozone or in chromic acid.

Technical details: Raw Material High density Polyethylene (HDPE); Standard color white, black, green, red, dark red, blue and yellow.

Specific Gravity: 0.95



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	
90	0,95	25	40	>50	1100	900	52			

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
136		44	-70	120	0,41	1,84	20

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
2,9	0,0004	10 ¹⁵	10 ¹³	>150	KC>600

VARIOUS PROPERTIES

Moisture Absorption	Water Absorption until Saturation	Specific Bulk Resistivity
%	%	
0,1	0,2	HB