



POLYETHYLENE (PE-HMW) 500 / (PE-UHMW) 1000

Polyethylene 500, provides a good combination of rigidity, toughness and strength, together with a good resistance to wear and abrasion, as well as to be easily welded. Its main use is in the food industry, as well as all types of mechanical applications, chemical and electrical.

Polyethylene 1000, combines excellent wear resistance and abrasion resistance, with an excellent impact resistance even at low temperatures. It is mainly applied in machinery bottling, canning and packaging, chemical, cryogenic equipment, textiles and transport equipment and general storage.

The main colors are white polyethylene, black and green. There is a possibility to supply other colors on request.

FEATURES	METHOD	UNIT	VALUE
DENSITY	DIN 53479	g/cm ³	0,95
MOISTURE ABSORPTION	50%VHR 100% HR	%	0,9
MELTING POINT	ASTM D 789	°C	138
THERMAL CONDUCTIVITY	DIN 52612	W/Km	0,43
COEFF. THERMAL EXPANSION 20 to 50 ° C		m/m K	200 10 ⁻⁶
MAX. TEMPERATURE USE	REGULAR	°C	80
	WITH TIPS		110
MIN. TEMPERATURE USE		°C	-100
TENSILE STRENGTH	DIN 53455	N/m/m ²	28
ELASTIC MODULUS	DIN 53457	N/m/m ²	900
COEFFICIENT OF FRICTION			0,2
IMPACT RESISTANCE	DIN 53453	Kj/m ²	Not break
BREAKING EXTENSION	DIN 53455	%	800
DIELECTRIC STRENGTH	DIN 53481	Kv/mm	90
TRANSVERSE STIFFNESS	DIN 53482	Ohm/cm	1.10 ¹⁸

SURFACE RESISTANCE

DIN 53482

Ohm

1.10^{13}