POLYETHYLENE AND PLASTIC NYLON RANGE

The plastic does not exist naturally : it is a synthetic product. It exists two families:

The thermoplastics : they are going soft at a very high temperature and they get harder during the cooling down

The heat-hardening ones : they are heat resistant but they can be destroy without melting if the temperature is too high

Leurs avantages

Their advantages:

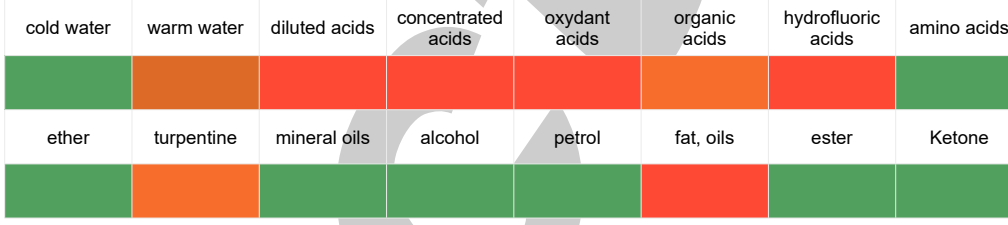
- 7x less heavy than steel : weight and mass gain
- Heating, mecanic and chemical resistance
- Excellent electric insulation
- Recycling enables a chimic reuse or an energetic upcycling
- Stainless : freshwater, seawater, salt fog...
- Remove the corrosion risk
- Reduce the seizing risk

POLYAMIDE PA 6.6. : COMMERCIAL DESIGNATION «NYLON»

A polyamide is a polymer with the fonction N-H-C=O, it results from the reaction of an acid and an amino acid. Thickness/density = 1,14 g/cm^3.

Heating characteristics :

- Fusion point : 255 C°
- Maximum temperature of continally use : 120 C°
- Minimum temperature of use : -30 C°



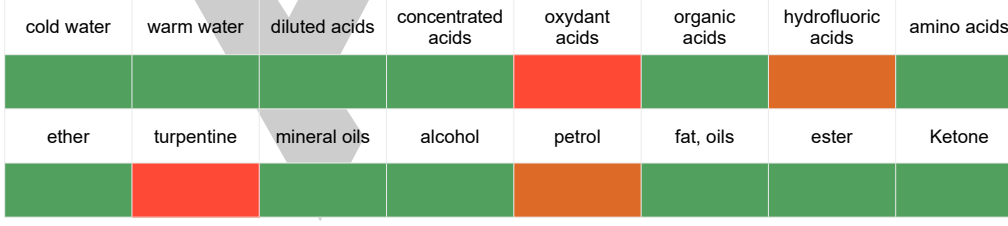
PE-HD : POLYETHYLENE HIGH DENSITY DESIGNATION

The PE-HD is made by a catalized cationic polymerization catalysée of the ethylene.

Thickness/density = 0,95 g/cm^3.

Heating characteristics :

- Fusion point : 135 C°
- Maximum temperature of continally use: 80 C°
- Minimum temperature of use : - 40 C°h



Good resistance Limited resistance Non resistant