

## TECHNICAL DATA SHEET

### POLYAMIDE (PA)

Polyamide is a semi-crystalline polymer with high mechanical resistance and excellent sliding and abrasive properties. Polyamides are used to produce fibres called nylons, which is why it is commonly referred to as nylon.

#### FEATURES

- Excellent sliding properties.
- Optimal abrasion resistance.
- High impact resistance.
- Low thermal expansion.
- High rigidity, hardness, durability, and mechanical strength.
- High shape stability under thermal load.
- Superior electrical insulating strength for unmodified types.
- High vibration damping capacity and impact resistance
- High resistance to UV, X and gamma radiation.
- Excellent chemical resistance to oils, fats, greases, petrol.



#### APPLICATION

Polyamide can be used to manufacture a variety of components such as gears, bearings, screws, nuts, sections, brackets, rails, ventilation grilles. Used in the electronics, agricultural and aerospace industries. The material is also used in the production of modern sports equipment, furniture, and window parts, as well as in renovation works.

Colour		Natural or dyed
Operation temperature	°C	-100 to +150
Density	g/cm <sup>3</sup>	1,13
Elongation after fracture	MPa	70/200
Modulus of elasticity after fracture test	MPa	1800/3000
Hardness	MPa	60 to 85

#### W NASZEJ OFERCIE

- Pręty poliamidowe
- Płyty poliamidowe

- Tuleje poliamidowe
- Kształtki poliamidowe

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