

POLIPA® (PA 6) ROD AND SHEET

Chemical designation
POLIPA® PA6 (Polyamide 6)

Colour
Naturel

Density
1,14 g/cm³

Features

- » high dimensional stabilisation
- » good impact resistance
- » easy to machine
- » low price

Applications

- » general applications
- » automotive applications
- » industrial applications
- » home applications
- » customary applications

Mechanical Properties	Units	Values	Test Methods
Tensile strenght	N/mm ²	60-70	ISO 527
Tensile elongation	%	-	ISO 527
Rupture resistance	N/mm ⁵	80	ISO 527
Elongation at rupture	%	>50	ISO 527
Impact resistance	kJ/m ²	-	ISO 527
Notch impact resistance	kJ/m ²	4-25	ISO 179
Elasticity module	N/mm ²	3000	ISO 178
Ball notch 358/30	N/mm ²	70-150	ISO 2039-1

Thermal Properties	Units	Values	Test Methods
Melting temperature	°C	220	-
Service temperature	°C	100	ISO 75
Thermal elongation	1/K*10 ⁻⁵	6-10	-

Other properties	Units	Values	Test Methods
Corrosion (sand slurry test)	%	-	-
Hardness	Shore D	85	-
Water absorption	%	9-10	ISO 62

¹ The figures given for these properties are the most part derived from raw material supplier data and other publications

² Mechanical properties in maximum allowable service temperature are below than properties in 23°C.

** Specified values are average values of tests processed in Polimersan laboratories. These are for information and not product guarantee values.

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