

# Nylon 6

Ertalon6 - Akulon6 - Tecamid6 - Nylatron6E - Aclamid6 - Alamid6 - Sustamid6

A high-performance material that is well suited for mechanical applications even in harsh environments and in the presence of contaminants. Easy to machine, it presents an excellent solution for the production of high-performance and resilient components.



## Material properties

Density	ISO 1183	1,14	g/cm <sup>3</sup>
Water absorption at saturation	ISO 62	9	%
Hygroscopicity	ISO 62	2,8	%
Tensile strength	ISO 527	90	MPa
Elongation at break	ISO 527	60	%
Yield strength	ISO 527	90/45	MPa
Elastic modulus	ISO 527	1700	MPa
Flexural strength	ISO EN 178	102	MPa
Resilience	ISO 179	No break	kJ/m <sup>2</sup>
Hardness	ISO 868	80 D	Shore
HDT 0.45 MPa	ISO 75	160/180	°C
HDT 1.8 MPa	ISO 75	70/90	°C
Vicat softening temperature	ISO 306	190	°C
Melting temperature	ISO 11357	255	°C
Flammability	UL94	V-3	

### Maximum dimensions

300x300x100 mm (11.8x11.8x3.9 in)

### Tolerances

ISO 2768-1 medium (m) class

### Applications

Stability and toughness. The addition of MoS2 makes it ideal for calendars, bushings, pulleys, rollers, wheels, gears, valve seats, seals.

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<b>Thermal conductivity (20°C)</b>	DIN 52612	<b>0,28</b>	W/mK
<b>Volumic electrical resistivity</b>	IEC 60093	<b>&gt; 10<sup>12</sup></b>	Ω*m

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