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/cm³
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/m²
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 calenders, bushings, pulleys, rollers, wheels, gears, valve seats, seals.

Thermal conductivity (20°C)	DIN 52612	**0,28**	W/mK
Volumic electrical resistivity	IEC 60093	**> 10^12**	Ω*m