

TECHNICAL DATA SHEET: PA (Polyamide)

	ISO	UNIT	CONDITIONS	RESULTS
GENERAL PROPERTIES				
Density	1183	g/cm ³	23°C	1.08 – 1.19
Water Absorption	62	%	24h saturation	1 - 9
THERMAL PROPERTIES				
Heat Distortion Temperature	75	°C	0.46/1.82MPa	135-225 / 55-95
Service temperature				
Minimum		°C		-40
Maximum (continuous/intermittent)		°C		80 / 160
MECHANICAL PROPERTIES				
Tensile strength at yield	527	MPa		45 – 95
Elongation at yield	527	%		3 - 30
Elongation at break	527	%		5 – 150
Tensile Modulus	527	MPa		1600 - 3900
Flexural modulus	178	MPa		2000 – 3000
Flexural Strength	178	MPa		45 - 105
Izod Impact Strength (notched)	180	kJ/m ²	23°C	3 – 80
Charpy Impact Strength (notched)	179	kJ/m ²	23°C	3 – 90
ELECTRICAL PROPERTIES				
Dielectric Strength	IEC243	kV/mm		10 – 120
Volume Resistivity	IEC93	ohm.cm		1E13 – 1E15
FLAMMABILITY PROPERTIES				
Oxygen index	4589			22 - 32
Flammability rating	UL 94			HB – V0
CHEMICAL PROPERTIES				
Resistance to Weak / Strong Acids				Bad / Bad
Resistance to Weak / Strong Alkalis				Fair / Bad
Resistance to Organic Solvents				Good
Resistance to Oils and Greases				Good
Resistance to UV / Ozone				Fair / Bad