


 Organizzazione con sistema  
 di gestione della qualità  
 certificato **ISO 9001**

 Organizzazione con sistema  
 di gestione della sicurezza  
 certificato **ISO 45001**

## TECHNICAL DATA SHEET – PA6 XT

### Product characteristics

- Good toughness
- Very good noise and vibration absorption
- Very good sliding properties

### Product applications

- Mechanical engineering
- Aircraft construction
- Food processing industry

	Test method	Unit	Value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g/cm <sup>3</sup>	1,14
Water absorption	DIN EN ISO 62	%	3,0
Flammability (th. 3-6 mm)	UL 94		HB / HB
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	80
Elongation at break	DIN EN ISO 527	%	50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3200
Notched impact strength	DIN EN ISO 179	kJ/m <sup>2</sup>	3
Shore hardness	DIN EN ISO 868	Scale D	82
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	220
Thermal conductivity	DIN 52612-1	W / (m* K)	0,23
Thermal capacity	DIN 52612	kJ / (kg*K)	1,70
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / K	90
Service temperature, short term (max)	Average	°C	160
Service temperature, long term	Average	°C	-40 ... 85
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	75

### PLANOPLAST SRL

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## Electrical properties

Dielectric constant	IEC 60250		3,9
Dielectric dissipation factor (50 Hz)	IEC 60250		0,02
Volume resistivity	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	$< 10^{15}$
Surface resistivity	DIN EN 62631-3-2	$\Omega$	$< 10^{13}$
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	20

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