

# Niretan A 27 EXL

Polyamide 66 of natural color, externally lubricated, easy flowing and fast processing.

	Properties	Test condition	Method	Unit	Value
Mechanical	Tensile Stress at Yield	50 mm/min.	ASTM D638	MPa	90/55
	Tensile Stress at Break	5 mm/min	ASTM D638	MPa	70/50
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	120/60
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	3000/1200
	Izod Notched Impact Strength	23°C/3,2 mm	ASTM D256	J/m	60/150
	Izod Notched Impact Strength	-20°C/3,2 mm	ASTM D256	J/m	40/70
	Elongation	50 mm/min	ASTM D638	%	30/60
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	75
	Linear Expansion Coefficient	23°C/55°C	ISO 11359-2	10 <sup>-5</sup> K <sup>-1</sup>	9
Flame Behaviour	Glow Wire Temperature (G.W.T)	S=2.0 mm	IEC 695-2-1	°C	750
	UL 94 Rating	S=1.6 mm	UL 94	class	V2
	UL 94 Rating	S=3.2 mm	UL 94	class	V2
Electrical	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	30/35
	Relative Permittivity	1 Mhz = secco	IEC 60250	-	3,5/4,0
	Dissipation Factor	1 Mhz = secco	IEC 60250	-	0,02/0,1
	Surface Resistivity	secco	IEC 60093	Ω	10 <sup>14</sup> /10 <sup>13</sup>
	Volume Resistivity	secco	IEC 60093	Ω cm	10 <sup>15</sup> /10 <sup>12</sup>
Various	Moulding Shrinkage	parallel	-	%	1,2-2,4
Physical	Density	23°C	ASTM D792	g/cm <sup>3</sup>	1,14



Properties	Test condition	Method	Unit	Value
				10
Humidity Absorption from Atmosphere	23°C - 50% HR	ASTM D570	%	3
Cristalline Melting Temperature	DSC	-	°C	260

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