

# Niretan A F20 AE/V2

**Polyamide 66 reinforced with 20% of glass fibre, flame retarded. U.L.94 rating: V2 at 1,6 mm**

	Properties	Test condition	Method	Unit	Value
Mechanical	Tensile Stress at Yield	50 mm/min.	ASTM D638	MPa	130/90
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	190/140
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	6500/4000
	Izod Notched Impact Strength	23°C/3mm	ASTM D256	J/m	50/80
	Izod Notched Impact Strength	-20°C/3mm	ASTM D256	J/m	40/60
	Rockwell Hardness		ASTM D785	R-scale	115/90
	Elongation	50 mm/min	ASTM D638	%	2,5/4,0
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	245
	Linear Expansion Coefficient	23°C/55°C	ISO 11359-2	10 <sup>-5</sup> K <sup>-1</sup>	4
Flame Behaviour	Glow Wire Temperature (G.W.T)	S=2.0 mm	IEC 695-2-1	°C	850
	UL 94 Rating	S-1.6 mm	UL 94	class	V2
	UL 94 Rating	S-3.2 mm	UL 94	class	V2
Electrical	Relative Permittivity	1 Mhz - dry	IEC 60250	-	3,5/4,0
	Dissipation Factor	1 Mhz - dry	IEC 60250	-	0,02/0,1
	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	30/35
	Surface Resistivity	dry	IEC 60093	Ω	10 <sup>14</sup> /10 <sup>13</sup>
	Volume Resistivity	dry	IEC 60093	Ω cm	10 <sup>15</sup> /10 <sup>12</sup>
Various	Moulding Shrinkage	parallel	-	%	0,3-0,7
Physical	Density	23°C	ASTM D792	g/cm <sup>3</sup>	1,33
	Water Absorption	24h - 23°C	ASTM D570	%	6
	Humidity Absorption from Atmosphere	23°C - 50% HR	ASTM D570	%	2,4



	Properties	Test condition	Method	Unit	Value
	Cristalline Melting Temperature	DSC	-	°C	260