

Niretan B F30 AE/V0

Polyamide 6 reinforced with 30% glass fibre; flame retardant as per UL 94 V0 at 1.6 mm rating

	Properties	Test condition	Method	Unit	Value
Mechanical	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	180/120
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	8500/600
	Rockwell Hardness		ASTM D785	R-scale	115
	Izod Notched Impact Strength	23°C/3,2 mm	ASTM D256	J/m	90/140
	Izod Notched Impact Strength	-20°C/3,2 mm	ASTM D256	J/m	70/120
	Elongation	5mm/min	ASTM D638	%	2,0/4,0
	Tensile Stress at Break	5 mm/min	ASTM D638	MPa	140/100
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	205
	Linear Expansion Coefficient	23°C/55°C	ISO 11359-2	10 ⁻⁵ K ⁻¹	4
Flame Behaviour	Glow Wire Temperature (G.W.T)	S=2.0 mm	IEC 695-2-1	°C	960
	UL 94 Rating	S=1.6 mm	UL 94	class	V0
	UL 94 Rating	S=3.2 mm	UL 94	class	V0
Electrical	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	34/24
	Relative Permittivity	1 Mhz = secco	IEC 60250	-	3,8/4,2
	Dissipation Factor	1 Mhz = secco	IEC 60250	-	0,02/0,12
	Surface Resistivity	secco	IEC 60093	Ω	10 ¹⁴ /10 ¹³
	Volume Resistivity	secco	IEC 60093	Ω cm	10 ¹⁵ /10 ¹²
Various	Moulding Shrinkage	parallel	-	%	0,3-0,6
Physical	Density	23°C	ASTM D792	g/cm ³	1,55



Properties	Test condition	Method	Unit	Value
				6
Humidity Absorption from Atmosphere	23°C - 50% HR	ASTM D570	%	2
Cristalline Melting Temperature	DSC	-	°C	220

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