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 Permettivity	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/cm³	1,55

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

All values are approximate values and are given after the best knowledge and conscience. Hence, because of variable processing terms or processing procedures an obligation cannot be derived from it.

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