Niretan B F30

Polyamide 6 reinforced with 30% glass fibre, for injection moulding

	Properties	Test condition	Method	Unit	Value
Mechanical	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	260/160
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	8000/5000
	Rockwell Hardness	23°C	ASTM D785	R-scale	115/100
	Izod Notched Impact Strength	23°C/3mm	ASTM D256	J/m	140/200
	Izod Notched Impact Strength	-20°C/3mm	ASTM D256	J/m	100/160
	Elongation	50 mm/min	ASTM D638	%	3/5
	Tensile Stress at Break	5 mm/min	ASTM D638	MPa	170/100
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	202
	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	650
	UL 94 Rating	S=1.6 mm	UL 94	class	HB
	UL 94 Rating	S=3.2 mm	UL 94	class	HB
Electrical	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	34/24
	Relative Permettivity	1 Mhz – dry	IEC 60250	-	3,8/4,2
	Dissipation Factor	1 Mhz – dry	IEC 60250	-	0,02/0,12
	Surface Resistivity	dry	IEC 60093	Ω	10^14/10^13
	Volume Resistivity	dry	IEC 60093	Ω cm	10^15/10^12
Various	Moulding Shrinkage	parallel	-	%	0,3/0,7
Physical	Density	23°C	ASTM D792	g/cm³	1,34

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	Properties	Test condition	Method	Unit	Value
					7
	Humidity Absorption from Atmosphere	23°C – 50% HR	ASTM D570	%	2,5
	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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