

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 Permittivity	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/cm ³	1,34



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Humidity Absorption from Atmosphere	23°C - 50% HR	ASTM D570	%	2,5
Cristalline Melting Temperature	DSC	-	°C	220

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