

# Niretan B F50

Polyamide 6, reinforced with 50% of glass fibre, for injection moulding of parts that need a maximum of stiffness, and dimensional stability.

	Properties	Test condition	Method	Unit	Value
Mechanical	Tensile Stress at Break	5 mm/min	ASTM D638	MPa	210/130
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	200/130
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	14000/9500
	Izod Notched Impact Strength	23°C/3mm	ASTM D256	J/m	180/240
	Izod Notched Impact Strength	-20°C/3mm	ASTM D256	J/m	90/150
	Rockwell Hardness	23°C	ASTM D785	R-scale	110/90
	Elongation	50 mm/min	ASTM D638	%	2,0/4
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	210
	Linear Expansion Coefficient	23°C/55°C	ISO 11359-2	10 <sup>-5</sup> K <sup>-1</sup>	5
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	Relative Permittivity	1Mhz - dry	IEC 60250	-	3,8/4,2
	Dissipation Factor	1Mhz - dry	IEC 60250	-	0,02/0,12
	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	34/24
	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	-	%	0,4/1,0
Physical	Density	23°C	ASTM D792	g/cm <sup>3</sup>	1,56
	Water Absorption	24h - 23°C	ASTM D570	%	6



Properties	Test condition	Method	Unit	Value
				2
Cristalline Melting Temperature	DSC	-	°C	220

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