

Niretan B F50

Polyamide 6, reinforced with 50% of glass fibre, for injection moulding of parts that needs 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 ⁻⁵ K ⁻¹	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	1 Mhz – dry	IEC 60250	-	3,8/4,2
	Dissipation Factor	1 Mhz – dry	IEC 60250	-	0,02/0,12
	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	34/24
	Surface Resistivity	dry	IEC 60093	□	10 ¹⁴ /10 ¹³
	Volume Resistivity	dry	IEC 60093	□ □ cm	10 ¹⁵ /10 ¹²
Various	Moulding Shrinkage	parallel	-	%	0,4/1,0
Physical	Density	23°C	ASTM D792	g/cm ³	1,56
	Water Absorption	24h - 23°C	ASTM D570	%	6

	Properties	Test condition	Method	Unit	Value
					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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