Niretan A F50

Polyamide 66, reinforced with 50% of glass fibre, for injection moulding of parts that needs maximal stiffness and dimensional stability.

	Properties	Test condition	Method	Unit	Value
Mechanical	Tensile Stress at Break	5 mm/min	ASTM D638	MPa	210/120
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	340/240
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	14000/10000
	Izod Notched Impact Strength	23°C/3mm	ASTM D256	J/m	150/200
	Izod Notched Impact Strength	-20°C/3mm	ASTM D256	J/m	90/130
	Rockwell Hardness		ASTM D785	R-scale	118/90
	Elongation	50 mm/min	ASTM D638	%	2,0/3,5
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	250
	Linear Expansion Coefficient	23°C/55°C	ISO 11359-2	10^-5 K^-1	2,2
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 Permettivity	1 Mhz - dry	IEC 60250	-	3,5/4,0
	Dissipation Factor	1 Mhz - dry	IEC 60250	-	0,02/0,1
	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	30/35
	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	-	%	0,2-0,5

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	Properties	Test condition	Method	Unit	Value
					1,56
	Water Absorption	24h - 23°C	ASTM D570	%	6
	Humidity Absorption from Atmosphere	23°C – 50% HR	ASTM D570	%	2
	Cristalline Melting Temperature	DSC	-	°C	260

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