

Niretan B F20

Polyamide 6 20% glass fibre reinforced for injection moulding.

	Properties	Test condition	Method	Unit	Value
Mechanical	Tensile Stress at Break	5 mm/min	ASTM D638	MPa	140/80
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	190/125
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	6200/3500
	Izod Notched Impact Strength	23°C/3mm	ASTM D256	J/m	80/100
	Izod Notched Impact Strength	-20°C/3mm	ASTM D256	J/m	60/100
	Rockwell Hardness		ASTM D785	R-scale	115/100
	Elongation	50 mm/min	ASTM D638	%	3,5/7,0
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	200
	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	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	Ω	10 ¹⁴ /10 ¹³
	Volume Resistivity	dry	IEC 60093	Ω cm	10 ¹⁵ /10 ¹²
Various	Moulding Shrinkage	parallel	-	%	0,4/0,8
Physical	Density	23°C	ASTM D792	g/cm ³	1,28



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Humidity Absorption from Atmosphere	23°C - 50% HR	ASTM D570	%	2,6
Cristalline Melting Temperature	DSC	-	°C	220

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