Niretan B F10

Polyamide 6, reinforced with 10% of glass fibre, for injection moulding of aesthetical parts.

	Properties	Test condition	Method	Unit	Value
Mechanical	Tensile Stress at Break	5 mm/min	ASTM D638	MPa	110/80
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	140-100
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	4500-2500
	Izod Notched Impact Strength	23°C/3mm	ASTM D256	J/m	55-70
	Izod Notched Impact Strength	-20°C/3mm	ASTM D256	J/m	40-50
	Rockwell Hardness		ASTM D785	R-scale	100
	Elongation	50 mm/min	ASTM D638	%	4/12
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	180
	Linear Expansion Coefficient	23°C/55°C	ISO 11359-2	10∧-5 K∧-1	6
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
	Surface Resistivity	dry	IEC 60093	□	10∧14/10∧13
	Volume Resistivity	dry	IEC 60093	□ □ cm	10∧15/10∧12
Various	Moulding Shrinkage	parallel	-	%	0,6-1,4
Physical	Density	23°C	ASTM D792	g/cm³	1,19
	Water Absorption	24h - 23°C	ASTM D570	%	9

	Properties	Test condition	Method	Unit	Value
					2,8
	Cristalline Melting Temperature	DSC	-	°C	220

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