

Niretan B F15

Polyamide 6, reinforced with 15% of glass fibre, for injection moulding.

	Properties	Test condition	Method	Unit	Value
Mechanical	Tensile Stress at Break	5 mm/min	ASTM D638	MPa	120/70
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	170/120
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	5500/3000
	Izod Notched Impact Strength	23°C/3mm	ASTM D256	J/m	65/80
	Izod Notched Impact Strength	-20°C/3mm	ASTM D256	J/m	50/60
	Rockwell Hardness	23°C	ASTM D785	R-scale	110/90
	Elongation	50 mm/min	ASTM D638	%	3,5/10
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	195
	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 Permittivity	1Mhz - dry	IEC 60250	-	3,5/4,0
	Dissipation Factor	1Mhz - dry	IEC 60250	-	0,02/0,1
	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	30
	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	-	%	0,5/1,0
Physical	Density	23°C	ASTM D792	g/cm ³	1,23
	Water Absorption	24h - 23°C	ASTM D570	%	8
	Humidity Absorption from Atmosphere	23°C - 50% HR	ASTM D570	%	2,7



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