

Niretan B C30

Polyamide 6 with 30% mineral filler, for the injection moulding of items requiring good dimensional stability as well as good rigidity.

	Properties	Test condition	Method	Unit	Value
Mechanical	Tensile Stress at Yield	50 mm/min.	ASTM D638	MPa	70/40
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	120/50
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	700/2500
	Rockwell Hardness		ASTM D785	R-scale	90/40
	Izod Notched Impact Strength	23°C/3,2 mm	ASTM D256	J/m	40/60
	Izod Notched Impact Strength	-20°C/3,2 mm	ASTM D256	J/m	30/30
	Elongation	50 mm/min	ASTM D638	%	3/30
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	120
	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	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	30/25
	Relative Permittivity	1 Mhz = secco	IEC 60250	-	3,5/4,0
	Dissipation Factor	1 Mhz = secco	IEC 60250	-	0,02/0,1
	Surface Resistivity	secco	IEC 60093	Ω	10 ¹⁴ /10 ¹³
	Volume Resistivity	secco	IEC 60093	Ω cm	10 ¹⁵ /10 ¹²
Various	Moulding Shrinkage	parallel	-	%	0,6/1,2
Physical	Density	23°C	ASTM D792	g/cm ³	1,35



Properties	Test condition	Method	Unit	Value
Water Absorption	24h - 23°C	ASTM D570	%	5/6
Humidity Absorption from Atmosphere	23°C - 50% HR	ASTM D570	%	2
Cristalline Melting Temperature	DSC	-	°C	220