

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	□	10 ¹⁴ /10 ¹³
	Volume Resistivity	secco	IEC 60093	□ □ 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

All values are approximate values and are given after the best knowledge and conscience. Hence, because of variable processing terms or processing procedures an obligation cannot be derived from it.

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