

Niretan B 27 N

Polyamide 6 coloured in bulk, high flow, for injection moulding, with short cycles and easy demoulding

	Properties	Test condition	Method	Unit	Value
Mechanical	Tensile Stress at Yield	50 mm/min.	ASTM D638	MPa	80/45
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	110/40
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	2900/900
	Rockwell Hardness	23°C	ASTM D785	R-scale	120/80
	Izod Notched Impact Strength	23°C/3mm	ASTM D256	J/m	45/>400
	Izod Notched Impact Strength	-20°C/3mm	ASTM D256	J/m	40/>200
	Elongation	50 mm/min	ASTM D638	%	20/>100
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	60
	Linear Expansion Coefficient	23°C/55°C	ISO 11359-2	10 ⁻⁵ K ⁻¹	10
Flame Behaviour	Glow Wire Temperature (G.W.T)	S=2.0 mm	IEC 695-2-1	°C	750
	UL 94 Rating	S=1.6 mm	UL 94	class	V2
	UL 94 Rating	S=3.2 mm	UL 94	class	V2
Electrical	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	30/25
	Relative Permittivity	1 Mhz – dry	IEC 60250	-	3,5/4,0
	Dissipation Factor	1 Mhz – dry	IEC 60250	-	0,02/0,1
	Surface Resistivity	dry	IEC 60093	□	10 ¹⁴ /10 ¹³
	Volume Resistivity	dry	IEC 60093	□ □ cm	10 ¹⁵ /10 ¹²
Various	Moulding Shrinkage	parallel	-	%	0,8-2,0
Physical	Density	23°C	ASTM D792	g/cm ³	1,14
	Water Absorption	24h - 23°C	ASTM D570	%	9/10

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					3
	Cristalline Melting Temperature	DSC	-	°C	220