

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	Ω	10 ¹⁴ /10 ¹³
	Volume Resistivity	dry	IEC 60093	Ω 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

	Properties	Test condition	Method	Unit	Value
					3
	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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