

# Niretan B 27 M

Polyamide 6 impact modified, easy flowing, for injection moulding.

	Properties	Test condition	Method	Unit	Value
Mechanical	Tensile Stress at Yield	50 mm/min.	ASTM D638	MPa	65/40
	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	80-40
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	2700/900
	Rockwell Hardness	23°C	ASTM D785	R-scale	100/85
	Izod Notched Impact Strength	23°C/3,2 mm	ASTM D256	J/m	130/280
	Izod Notched Impact Strength	-20°C/3,2 mm	ASTM D256	J/m	110/180
	Elongation	50 mm/min	ASTM D638	%	50/200
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	50
	Linear Expansion Coefficient	23°C/55°C	ISO 11359-2	10 <sup>-5</sup> K <sup>-1</sup>	10
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 - 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 <sup>14</sup> /10 <sup>13</sup>
	Volume Resistivity	dry	IEC 60093	Ω cm	10 <sup>15</sup> /10 <sup>12</sup>
Various	Moulding Shrinkage	parallel	-	%	1,0-2,5
Physical	Density	23°C	ASTM D792	g/cm <sup>3</sup>	1,10
	Humidity Absorption	23°C - 50% HR	ASTM D570	%	2,5



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