

Niretan B AE/V0

Polyamide 6 flame retardant as per UL 94 V0 at 1.6 mm rating

	Properties	Test condition	Method	Unit	Value
Mechanical	Flexural Maximum Stress	1,3 mm/min	ASTM D790	MPa	120/60
	Flexural Elastic Modulus	1,3 mm/min	ASTM D790	MPa	2800/800
	Rockwell Hardness		ASTM D785	R-scale	120/102
	Izod Notched Impact Strength	23°C/3,2 mm	ASTM D256	J/m	50/600
	Izod Notched Impact Strength	-20°C/3mm	ASTM D256	J/m	45/500
	Elongation	5mm/min	ASTM D638	%	>60/>200
	Tensile Stress at Break	5 mm/min	ASTM D638	MPa	60/30
	Tensile Stress at Yield	5 mm/min	ASTM D638	MPa	80/40
Thermal	Heat Distortion Temperature H.D.T	1.82 MPa	ASTM D648	°C	70
	Linear Expansion Co-efficient	23°C/55°C	ISO 11359-2	10 ⁻⁵ K ⁻¹	7,5
Flame Behaviour	Glow Wire Temperature (G.W.T)	S=2.0 mm	IEC 695-2-1	°C	960
	UL 94 Rating	S=1.6 mm	UL 94	class	V0
	UL 94 Rating	S=3.2 mm	UL 94	class	V0
Electrical	Dielectric Strength	S=1 mm	IEC 60243-1	KV/mm	60/40
	Relative Permittivity	1 Mhz = secco	IEC 60250	-	3,8
	Dissipation Factor	1 Mhz = secco	IEC 60250	-	0,03
	Surface Resistivity	secco	IEC 60093	Ω	10 ¹² /10 ¹⁰
	Volume Resistivity	secco	IEC 60093	Ω cm	10 ¹⁵ /10 ¹¹
Physical	Density	23°C	ASTM D792	g/cm ³	1,16

	Properties	Test condition	Method	Unit	Value
					9/10
	Humidity Absorption from Atmosphere	23°C – 50% HR	ASTM D570	%	25/3,4
	Cristalline Melting Temperature	DSC	-	°C	215/220

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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