

Niretan B AE/V0

Polyamide 6
Soredi S.p.a.

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

General Information				
Features		Flame retardancy		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.16	--	g/cm ³	ASTM D792
Water Absorption				ASTM D570
23°C, 24 hr	9.0	10	%	ASTM D570
Equilibrium, 23°C, 50% RH	2.5	3.4	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	102		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength ¹				ASTM D638
Yield	80.0	40.0	MPa	ASTM D638
Fracture	60.0	30.0	MPa	ASTM D638
Tensile Elongation ² (Break)	60	200	%	ASTM D638
Flexural Modulus ³	2800	800	MPa	ASTM D790
Flexural Strength ⁴ (Break)	120	60.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
0°C, 3.20 mm	45	500	J/m	ASTM D256
23°C, 3.20 mm	50	600	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	70.0	--	°C	ASTM D648
Peak Crystallization Temperature (DSC)	215	220	°C	ASTM D3418
CLTE - Flow	7.5E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+11	ohms · cm	IEC 60093
Dielectric Strength (1.00 mm)	60	40	kV/mm	IEC 60243-1

Relative Permittivity (1 MHz)	3.80	--		IEC 60250
Dissipation Factor (1 MHz)	0.030	--		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	V-0	--		UL 94
3.20 mm	V-0	--		UL 94
Glow Wire Ignition Temperature (2.00 mm)	960	--	°C	IEC 60695-2-13

Additional Information

干燥
Tensile Elongation at Break, ASTM D638, 5 mm/min: >60%

调节后的
Tensile Elongation at Break, ASTM D638, 5 mm/min: >200%

NOTE

1.	5.0 mm/min
2.	5.0 mm/min
3.	1.3 mm/min
4.	1.3 mm/min

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