

Niretan B 30 N

Polyamide 6
Soredi S.p.a.

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

General Information				
Features		Fast molding cycle		
		Good liquidity		
		Good demoulding performance		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.14	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.80 - 2.0	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	9.0	10	%	ASTM D570
Equilibrium, 23°C, 50% RH	3.0	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	80		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength ¹ (Yield)	80.0	45.0	MPa	ASTM D638
Tensile Elongation ² (Break)	20	100	%	ASTM D638
Flexural Modulus ³	2900	900	MPa	ASTM D790
Flexural Strength ⁴ (Break)	110	40.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-20°C, 3.20 mm	40	200	J/m	ASTM D256
23°C, 3.20 mm	50	400	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	60.0	--	°C	ASTM D648
Peak Crystallization Temperature (DSC)	220	--	°C	ASTM D3418
CLTE - Flow	1.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms · cm	IEC 60093

Dielectric Strength (1.00 mm)	30	35	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.50	4.00		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.10		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	V-2	--		UL 94
3.20 mm	V-2	--		UL 94
Glow Wire Ignition Temperature (2.00 mm)	750	--	°C	IEC 60695-2-13

Additional Information

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Tensile Elongation @ Break, ASTM D638, 50 mm/min: >100%Notched Izod Impact, ASTM D256, 23°C, 3.2 mm: >400 J/mNotched Izod Impact, ASTM D256, -20°C, 3.2 mm: >200 J/m

NOTE

1. 50 mm/min
2. 50 mm/min
3. 1.3 mm/min
4. 1.3 mm/min

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