

Niretan B F50

Polyamide 6

Soredi S.p.a.

Message:

Polyamide 6 reinforced with 50% glass fibre, for injection moulding

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.56	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.40 to 1.0	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	6.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	110	90		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength ¹ (Break)	210	130	MPa	ASTM D638
Tensile Elongation ² (Break)	2.0	4.0	%	ASTM D638
Flexural Modulus ³	13500	9500	MPa	ASTM D790
Flexural Strength ⁴ (Break)	200	130	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-20°C, 3.20 mm	90	150	J/m	
23°C, 3.20 mm	180	240	J/m	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	190	--	°C	ASTM D648
Peak Crystallization Temperature (DSC)	220	--	°C	ASTM D3418
CLTE - Flow (23 to 55°C)	5.0E-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
Electric Strength (1.00 mm)	34	24	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.80	4.20		IEC 60250

Dissipation Factor (1 MHz)	0.020	0.12		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		
3.20 mm	HB	--		
Glow Wire Ignition Temperature (2.00 mm)	650	--	°C	IEC 60695-2-13
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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