

Niretan A F50

Polyamide 66

Soredi S.p.a.

Message:

Polyammide 66 reinfirced with 50% glass fibre, for the injection moulding of items requiring, a good aesthetical surface.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 50% filler by weight		
Features		Excellent appearance		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.56	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 - 0.50	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	6.0	--	%	ASTM D570
Equilibrium, 23°C, 50% RH	2.0	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	118	118		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength ¹ (Break)	210	120	MPa	ASTM D638
Tensile Elongation ² (Break)	2.0	3.5	%	ASTM D638
Flexural Modulus ³	13500	10000	MPa	ASTM D790
Flexural Strength ⁴ (Break)	340	240	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-20°C, 3.20 mm	90	130	J/m	ASTM D256
23°C, 3.20 mm	150	200	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	250	--	°C	ASTM D648
Peak Crystallization Temperature (DSC)	260	--	°C	ASTM D3418
CLTE - Flow	2.2E-6	--	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	HB	--		UL 94
3.20 mm	HB	--		UL 94
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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