Nilac F17

Acrylonitrile Butadiene Styrene

Soredi S.p.a.

Message:

ABS rinforced with 17% glass fibre, for the injection moulding of items characterized by high rigidity and dimensional stability

General Information			
Filler / Reinforcement	Glass Fiber,17% Filler by Weight		
Features	Good Dimensional Stability High Rigidity		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.17	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.20 to 0.40	%	
Across Flow	0.30 to 0.50	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Break)	65.0	MPa	ASTM D638
Tensile Elongation [2] (Break)	2.5	%	ASTM D638
Flexural Modulus [3]	5000	MPa	ASTM D790
Flexural Strength [4] (Break)	90.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-20°C, 3.20 mm	50	J/m	
23°C, 3.20 mm	70	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	100	°C	ASTM D648
Vicat Softening Temperature	106	°C	ASTM D1525 [5]
CLTE - Flow (23 to 55°C)	4.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093

Electric Strength (1.00 mm)	30	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	2.80		IEC 60250
Dissipation Factor (1 MHz)	0.010		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
Glow Wire Ignition Temperature	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		
5.	Rate B (120°C/h), Loading 2 (50 N)		

Recommended distributors for this material

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