

Niblan VCF10

Polybutylene Terephthalate

Soredi S.p.a.

Message:

PBT reinforced with 10% short glass fibre.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.80 - 1.2	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	65.0	MPa	ASTM D638
Tensile Elongation ² (Break)	7.0	%	ASTM D638
Flexural Modulus ³	3000	MPa	ASTM D790
Flexural Strength ⁴ (Break)	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-22°C, 3.20 mm	35	J/m	ASTM D256
23°C, 3.20 mm	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	70.0	°C	ASTM D648
Peak Crystallization Temperature (DSC)	220	°C	ASTM D3418
CLTE - Flow (23 to 55°C)	6.0E-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
Dielectric Strength (1.00 mm)	35	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.70		IEC 60250
Dissipation Factor (1 MHz)	0.0		IEC 60250
Flammability	Nominal Value	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
Additional Information			
Surface Resistivity, IEC 60093: > 1E15 ohmsVolume Resistivity, IEC 60093: > 1E15 ohm-cm			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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