

Niblan V100 AE/V0

Polybutylene Terephthalate

Soredi S.p.a.

Message:

Unreinforced PBT, flame retardant UL official certified by underwriters laboratories (yellow card) As per UL 94 V0 at 1,6 mm rating

General Information			
UL YellowCard	E215207-229295		
Features	Flame retardancy		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0 - 2.2	%	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 (Yield)	55.0	MPa	ASTM D638
Tensile Elongation ² (Break)	10	%	ASTM D638
Flexural Modulus ³	2800	MPa	ASTM D790
Flexural Strength ⁴ (Break)	90.0	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	50	J/m	ASTM D256
Thermal	Nominal Value	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 (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)	30	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.50		IEC 60250
Dissipation Factor (1 MHz)	0.0		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		UL 94

3.20 mm	V-0	UL 94
Glow Wire Ignition Temperature (2.00 mm)	960	°C
IEC 60695-2-13		
Additional Information		
Volume Resistivity, IEC 60093: > 1E15 ohm-cmSurface Resistivity, IEC 60093: > 1E15 ohms		
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	1.3 mm/min	
4.	1.3 mm/min	

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