

Niblan V100

Polybutylene Terephthalate

Soredi S.p.a.

Message:

PBT of medium fluidity for injection moulding.

General Information			
Features	Medium liquidity		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	28	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0 - 2.0	%	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)	50	%	ASTM D638
Flexural Modulus ³	2500	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	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	180	°C	ASTM D648
Vicat Softening Temperature	55.0	°C	ASTM D1525 ⁵
CLTE - Flow (23 to 55°C)	7.0E-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)	3.40		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
Additional Information		
Tensile Elongation at Break, ASTM D638, 50 mm/min: >50%Surface Resistivity, IEC 60093: >1E15 ohmsVolume Resisitivity, IEC 60093: >1E15 ohm-cm		
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	1.3 mm/min	
4.	1.3 mm/min	
5.	标准 B (120°C/h), 载荷2 (50N)	

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