

Pibiter® N100 NAT001

Polybutylene Terephthalate

SO.F.TER. SPA

Message:

Medium viscosity PBT unreinforced grade

General Information			
UL YellowCard	E187982-101341042		
Features	Medium Viscosity		
Agency Ratings	EC 1907/2006 (REACH)		
UL File Number	E187982		
Appearance	Natural Color		
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)	25	g/10 min	ASTM D1238
Molding Shrinkage	1.7	%	Internal Method
Water Absorption			
23°C, 24 hr	0.050	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.35	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2550	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	52.0	MPa	
Break	34.0	MPa	
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	2500	MPa	ASTM D790
Flexural Strength	87.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	55.0	°C	ASTM D648
Vicat Softening Temperature	175	°C	ASTM D1525 ¹
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	ASTM D257
Volume Resistivity (23°C)	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength (1.60 mm)	17	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.20		ASTM D150
Dissipation Factor (1 kHz)	2.0E-3		ASTM D150

Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	3.0	hr	
Rear Temperature	235	°C	
Middle Temperature	250	°C	
Front Temperature	260	°C	
Mold Temperature	50.0 to 90.0	°C	
NOTE			

1. Rate A (50°C/h), Loading 2 (50 N)

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