

Pibiter® NRV20 NAT001

Polybutylene Terephthalate

SO.F.TER. SPA

Message:

20% glass fiber reinforced PBT

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage	0.50	%	Internal Method
Water Absorption			
23°C, 24 hr	0.040	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.35	%	ISO 62
Ash Content	20	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6800	MPa	ASTM D638
Tensile Strength (Break)	110	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	6400	MPa	ASTM D790
Flexural Strength	180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	70	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	220	°C	
1.8 MPa, Unannealed	206	°C	
Vicat Softening Temperature	210	°C	ASTM D1525 ¹
CLTE - Flow	3.5E-5	cm/cm/°C	ASTM D696
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)	22	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.70		ASTM D150
Dissipation Factor (1 kHz)	3.0E-3		ASTM D150

Comparative Tracking Index	350	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	HB		UL 94
NOTE			
1.	Rate A (50°C/h), Loading 2 (50 N)		

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