

Pibiter® NRV10 NATURALE

Polybutylene Terephthalate

SO.F.TER. SPA

Message:

10% glass fiber reinforced PBT

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	27	g/10 min	ASTM D1238
Molding Shrinkage	0.90	%	Internal Method
Water Absorption			
23°C, 24 hr	0.050	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.35	%	ISO 62
Ash Content	10	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4400	MPa	ASTM D638
Tensile Strength (Break)	80.0	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	4100	MPa	ASTM D790
Flexural Strength	140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	215	°C	
1.8 MPa, Unannealed	200	°C	
Vicat Softening Temperature	205	°C	ASTM D1525 ¹
CLTE - Flow	5.0E-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)	20	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.50		ASTM D150
Dissipation Factor (1 kHz)	2.0E-3		ASTM D150

Comparative Tracking Index	350	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	HB		UL 94
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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