

Pibiter® NRV230AE NAT001

Polybutylene Terephthalate

SO.F.TER. SPA

Message:

30% glass fiber reinforced, flame retardant PBT grade

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
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	1.70	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage	0.35	%	Internal Method
Water Absorption			
23°C, 24 hr	0.030	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Ash Content	30	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ASTM D638
Tensile Strength (Break)	120	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	10400	MPa	ASTM D790
Flexural Strength	200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	224	°C	
1.8 MPa, Unannealed	213	°C	
Vicat Softening Temperature	207	°C	ASTM D1525 ¹
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (0.750 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	

Drying Time	3.0	hr
Rear Temperature	235	°C
Middle Temperature	245	°C
Front Temperature	250	°C
Mold Temperature	60.0 to 80.0	°C

NOTE

1. Rate A (50°C/h), Loading 2 (50 N)

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