Pibiter® N200AE NAT001

Polybutylene Terephthalate

SO.F.TER. SPA

Message:

Unreinforced, flame retardant PBT grade

General Information			
UL YellowCard	E187982-101341044		
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	1.44	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	50	g/10 min	ASTM D1238
Molding Shrinkage	1.3	%	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	3200	MPa	ASTM D638
Tensile Strength (Break)	50.0	MPa	ASTM D638
Flexural Modulus	3000	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	30	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	180	°C	
1.8 MPa, Unannealed	70.0	°C	
Vicat Softening Temperature	190	°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)	16	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.20		ASTM D150
Dissipation Factor (1 kHz)	2.0E-3		ASTM D150
Comparative Tracking Index	400	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	V-0		UL 94

Injection	Nominal Value	Unit
Rear Temperature	230	°C
Middle Temperature	245	°C
Front Temperature	250	°C
Mold Temperature	40.0 to 90.0	°C

NOTE	
1.	Rate A (50°C/h), Loading 2 (50 N)

Recommended distributors for this material

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