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NOVADURAN -PBT-

				GF Reinforced Flame Retardant type-1
Properties	Test Method	Terms	Units	5010GN6-30M8X
				Low Outgas 0.3mmt V-0
				GF
				30
Physical properties				
Density	ISO 1183	-	g/cm³	1.71
Water absorption	-	23degC, Underwater	%	0.07
Demensional properties				
Moulding shrinkage (100×100×2mmt)	-	MD	%	0.5
		TD		1.2
Mechanical properties				
Tensile modulus	ISO 527-1 , 527-2	-	MPa	11000
Yield stress				-
Yield strain			%	-
Nominal strain at break				-
Stress at 50% strain			MPa	-
Stress at break				142
Strain at break			%	3
Flexural strength	ISO 178	-	MPa	215
Flexural modulus				10500
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m²	55
Charpy notched impact strength		23 degC	kJ/m²	10
Thermal properties				
Melting temperature	ISO 11357-3		degC	224
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa 0.45MPa	degC	208 > 220
Coefficient of Linear thermal expansion	ISO 11359-2	MD : -30~120degC	1/degC*10 ⁻⁵	2
		MD : -30~50degC		3
		MD : 50~120degC		1
		TD : -30~120degC		11
		TD : -30~50degC		9
		TD : 50~120degC		14
Flammability	UL94	-	-	V-0 (0.25mmt/BK) V-0 (0.30mmt/NC) V-0 (0.38mmt/ALL)
Electrical properties				
Relative permittivity	IEC 60250	1MHz	-	3.9
Dissipation factor	IEC 60250	1MHz	-	0.014
Volume resistivity	IEC 60093		Ω·m	3E+14
Surface resistivity	IEC 60093		Ω/sq	6E+15
Electric strength	IEC 60243-1		kV/mm	24

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		2mmt 3mmt	MV/m	- -
Comparative tracking index	UL746A	-	-	PLC 2
Note				
Molding conditions -Examples of recommended molding conditions are shown below.-				
Drying of feedstock resin				Hot air drying at 120°C ---5 to 8 hours at 140°C ---about 4 hours
Cylinder temp (rear)			°C	235
Cylinder temp (center)			°C	240
Cylinder temp (front)			°C	255
Nozzle temp			°C	250
Mold temp			°C	80-100
Injection pressure			MPa	20-150
Screw rotation			rpm	80-120

The listed properties are portrayed as general information only and are not product specifications.
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