

Properties	Test Method	Terms	Units	GF Reinforced Flame Retardant
				5010GN6-15TS
				GF15
Physical properties				
Density	ISO 1183	-	g/cm ³	1.52
Dimensional properties				
Moulding shrinkage (2mmt)	-	MD TD	%	0.7 1.3
Rheological properties				
Melt Volume flow Rate	ISO 1133	-	cm ³ /10min -	40 250°C × 5kg
Mechanical properties				
Yield stress	ISO 527-1,2	-	MPa	-
Stress at break	ISO 527-1,2	-	MPa	100
Strain at break	ISO 527-1,2	-	%	3
Flexural strength	ISO 178	-	MPa	155
Flexural modulus	ISO 178	-	MPa	5,900
Charpy impact	ISO 179-1, 2	- notched	kJ/m ² kJ/m ²	38 7
Thermal properties				
Melting temperature	ISO 11357-3	-	°C	224
Temperature of deflection under load	ISO 75-1, 2	1.80MPa 0.45MPa	°C	195 >200
Coefficient of Linear thermal expansion	ISO 11359-2	MD: -30~120°C	1E-5/°C	3.0
		MD: -30~35°C		3.0
		MD: 35~120°C		3.0
		TD: -30~120°C		12.0
		TD: -30~35°C		8.0
		TD: 35~120°C		15.0
Flammability	UL94	-	-	V-0(0.71mmt) V-0(1.5mmt) V-0(3mmt)
Electrical properties				
Volume resistivity	IEC 60093	-	Ω·m	>1E12
Surface resistivity	IEC 60093	-	Ω	>1E14
Electric strength	IEC 60243-1	1mmt	MV/m	-
		2mmt		-
		3mmt		-
CTI	UL746A	-	-	PLC 2
RTI(Elec)	UL746B	-	-	130(0.71mmt)
RTI(Imp)	UL746B	-	-	130(0.71mmt)
RTI(Str)	UL746B	-	-	130(0.71mmt)
Molding Conditions (Standard example)				
Pre-drying Temperature	-	-	°C	120 / 140
Pre-drying Time	-	-	h	5-8 / 4-6
Cylinder temperature	-	-	°C	240-265
Mold temperature	-	-	°C	50-90
Injection speed	-	-	-	Middle-High
Injection pressure	-	-	MPa	20-150
Screw speed	-	-	rpm	80-150

The values described are typical values only.