

Properties	Test Method	Terms	Units	GF Reinforced toughness type
				5010GT15
				X
				Improved Thermal Shock Durability
				GF15
Physical properties				
Density	ISO 1183	-	g/cm ³	1.39
Dimensional properties				
Moulding shrinkage (2mmt)	-	MD	%	0.6
		TD		1.1
Rheological properties				
Melt Volume flow Rate	ISO 1133	-	cm ³ /10min -	14 250°C × 5kg
Mechanical properties				
Yield stress	ISO 527-1,2	-	MPa	-
Stress at break	ISO 527-1,2	-	MPa	85
Strain at break			%	5
Flexural strength	ISO 178	-	MPa	130
Flexural modulus			MPa	4,000
Charpy impact	ISO 179-1, 2	-	kJ/m ² kJ/m ²	69
		notched		12
Thermal properties				
Melting temperature	ISO 11357-3	-	°C	224
Temperature of deflection under load	ISO 75-1, 2	1.80MPa	°C	175
		0.45MPa		>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		14.0
		TD: -30~35°C		11.0
		TD: 35~120°C		16.0
Flammability	UL94	-	-	HB(1.5mmt)
Electrical properties				
Volume resistivity	IEC 60093	-	Ω·m	>1E12
Surface resistivity	IEC 60093	-	Ω	>1E14
Electric strength	IEC 60243-1	1mmt	MV/m	24
		2mmt		21
		3mmt		-
CTI	UL746A	-	-	-
RTI(Elec)	UL746B	-	-	-
RTI(Imp)	UL746B	-	-	-
RTI(Str)	UL746B	-	-	-
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.