

Properties	Test Method	Terms	Units	GF Reinforced Alloy Flame Retardant
				5817GN2-15L
				Low Warpage Low Density
				GF
Physical properties				
Density	ISO 1183	-	g/cm ³	1.39
Dimensional properties				
Moulding shrinkage (2mmt)	-	MD TD	%	0.5 0.8
Rheological properties				
Melt Volume flow Rate	ISO 1133	-	cm ³ /10min -	30 250°C × 5kg
Mechanical properties				
Yield stress	ISO 527-1,2	-	MPa	-
Stress at break	ISO 527-1,2	-	MPa	93
Strain at break	ISO 527-1,2	-	%	3
Flexural strength	ISO 178	-	MPa	141
Flexural modulus	ISO 178	-	MPa	5,300
Charpy impact	ISO 179-1, 2	-	notched kJ/m ²	38
				6
Thermal properties				
Melting temperature	ISO 11357-3	-	°C	224
Temperature of deflection under load	ISO 75-1, 2	1.80MPa 0.45MPa	°C	140
				>200
Coefficient of Linear thermal expansion	ISO 11359-2	MD: -30~120°C MD: -30~35°C MD: 35~120°C	1E-5/°C	3.0
				3.9
				2.3
		TD: -30~120°C TD: -30~35°C TD: 35~120°C		10.7
				8.4
				12.5
Flammability	UL94	-	-	same as V-0(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	-
		2mmt		20
		3mmt		-
CTI	UL746A	-	-	same as PLC 3
RTI(Elec)	UL746B	-	-	-
RTI(Imp)	UL746B	-	-	-
RTI(Str)	UL746B	-	-	-
Molding Conditions (Standard example)				
Pre-drying Temperature	-	-	°C	120
Pre-drying Time	-	-	h	5-8
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.