

Properties	Test Method	Terms	Units	GF Reinforced type
				5010G30
				X4
				Improved Hydrolytic Resistance
GF30				
<b>Physical properties</b>				
Density	ISO 1183	-	g/cm <sup>3</sup>	1.53
<b>Dimensional properties</b>				
Moulding shrinkage (2mmt)	-	MD	%	0.4
		TD		1.2
<b>Rheological properties</b>				
Melt Volume-flow Rate	ISO 1133	-	cm <sup>3</sup> /10min -	40 250°C × 5kg
<b>Mechanical properties</b>				
Yield stress	ISO 527-1,2	-	MPa	-
Stress at break	ISO 527-1,2	-	MPa	150
Strain at break		-	%	3
Flexural strength	ISO 178	-	MPa	220
Flexural modulus		-	MPa	9,100
Charpy impact strength	ISO 179-1, 2	-	kJ/m <sup>2</sup>	59
Charpy notched impact strength		-	kJ/m <sup>2</sup>	11
<b>Thermal properties</b>				
Melting temperature	ISO 11357-3	-	°C	224
Temperature of deflection under load	ISO 75-1, 2	1.80MPa	°C	>200
		0.45MPa		>200
Coefficient of Linear thermal expansion	ISO 11359-2	MD : -30~120°C	1E-5/°C	1.8
		MD : -30~35°C		2.3
		MD : 35~120°C		2.0
		TD : -30~120°C		11.4
		TD : -30~35°C		7.6
		TD : 35~120°C		14.4
Flammability	UL94	-	-	HB(0.8mmt)
		-	-	HB(1.5mmt)
		-	-	HB(3mmt)
		-	-	HB(6mmt)
<b>Electrical properties</b>				
Volume resistivity	IEC 60093	-	Ω · m	>1E12
Surface resistivity	IEC 60093	-	Ω	>1E14
Electric strength	IEC 60243-1	1mmt	MV/m	27
		2mmt		25
		3mmt		-
Comparative tracking index	UL746A	-	-	PLC 1
RTI(Elec)	UL746B	-	-	140(0.8mmt BK,WT),140(1.5mmt ALL)
RTI(Imp)	UL746B	-	-	120(0.8mmt BK,WT),120(1.5mmt ALL)
RTI(Str)	UL746B	-	-	140(0.8mmt BK,WT),140(1.5mmt ALL)

The values described are typical values only.