

NOVADURAN™



Properties	Test Method	Terms	Units	GF Reinforced Alloy
				5810G40
				Low Warpage Low Density
				GF40
Physical properties				
Density	ISO 1183	–	g/cm³	1.53
Dimensional properties				
Moulding shrinkage (2mmt)	–	MD TD	%	0.3 0.6
Rheological properties				
Melt Volume flow Rate	ISO 1133	–	cm³/10min –	26 250°C × 5kg
Mechanical properties				
Yield stress	ISO 527-1,2	–	MPa	–
Stress at break	ISO 527-1,2	–	MPa	130
Strain at break			%	1
Flexural strength	ISO 178	–	MPa	195
Flexural modulus			MPa	12,000
Charpy impact	ISO 179-1, 2	– notched	kJ/m² kJ/m²	60 11
Thermal properties				
Melting temperature	ISO 11357-3	–	°C	224
Temperature of deflection under load	ISO 75-1, 2	1.80MPa 0.45MPa	°C	190 >200
Coefficient of Linear thermal expansion	ISO 11359-2	MD : -30~120°C MD : -30~35°C MD : 35~120°C TD : -30~120°C TD : -30~35°C TD : 35~120°C	1E-5/°C	1.0 1.0 1.0 9.0 7.0 11.0
Flammability	UL94	–	–	–
Electrical properties				
Volume resistivity	IEC 60093	–	Ω · m	>1E12
Surface resistivity	IEC 60093	–	Ω	>1E14
Electric strength	IEC 60243-1	1mmt 2mmt 3mmt	MV/m	40 30 –
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 speed	–	–	MPa	20–150
Screw speed	–	–	rpm	80–150

The values described are typical values only.