

Properties	Test Method	Terms	Units	Unreinforced type
				5010R3
				2
				High toughness
—				
Physical properties				
Density	ISO 1183	—	g/cm ³	1.31
Dimensional properties				
Moulding shrinkage (2mmt)	—	MD	%	1.9
		TD		1.8
Rheological properties				
Melt Volume flow Rate	ISO 1133	—	cm ³ /10min —	18 250°C × 2.16kg
Mechanical properties				
Yield stress	ISO 527-1,2	—	MPa	55
Stress at break	ISO 527-1,2	—	MPa	—
Strain at break			%	>200
Flexural strength	ISO 178	—	MPa	80
Flexural modulus			MPa	2,300
Charpy impact	ISO 179-1, 2	— notched	kJ/m ² kJ/m ²	NB 6
Thermal properties				
Melting temperature	ISO 11357-3	—	°C	224
Temperature of deflection under load	ISO 75-1, 2	1.80MPa 0.45MPa	°C	67 165
Coefficient of Linear thermal expansion	ISO 11359-2	MD: -30~120°C	1E-5/°C	11.7
		MD: -30~35°C		8.0
		MD: 35~120°C		14.5
		TD: -30~120°C		12.2
		TD: -30~35°C		8.8
		TD: 35~120°C		14.8
Flammability	UL94	—	—	HB(0.83mmt) HB(1.5mmt) HB(3mmt) HB(6mmt)
Electrical properties				
Volume resistivity	IEC 60093	—	Ω·m	>1E12
Surface resistivity	IEC 60093	—	Ω	>1E14
Electric strength	IEC 60243-1	1mmt	MV/m	22
		2mmt		17
		3mmt		—
CTI	UL746A	—	—	PLC 0
RTI(Elec)	UL746B	—	—	130(0.83mmt)
RTI(Imp)	UL746B	—	—	120(1.5mmt)
RTI(Str)	UL746B	—	—	140(0.83mmt)
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.