

Properties	Test Method	Terms	Units	Unreinforced Flame Retardant
				5010N7A
Physical properties				
Density	ISO 1183	–	g/cm ³	1.34
Dimensional properties				
Moulding shrinkage (2mmt)	–	MD TD	%	1.7 1.7
Rheological properties				
Melt Volume flow Rate	ISO 1133	–	cm ³ /10min –	35 250°C × 2.16kg
Mechanical properties				
Yield stress	ISO 527-1,2	–	MPa	60
Stress at break	ISO 527-1,2	–	MPa	–
Strain at break	ISO 527-1,2	–	%	100
Flexural strength	ISO 178	–	MPa	85
Flexural modulus	ISO 178	–	MPa	2,400
Charpy impact	ISO 179-1, 2	– notched	kJ/m ² kJ/m ²	85 3
Thermal properties				
Melting temperature	ISO 11357-3	–	°C	220
Temperature of deflection under load	ISO 75-1, 2	1.80MPa 0.45MPa	°C	55 135
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	–	–	V-2(1.5mmt) V-2(3.0mmt)
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	– – –
CTI	UL746A	–	–	PLC 2
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.