

Properties	Test Method	Terms	Units	Unreinforced Flame Retardant
				5010N5
				V-2
				—
Physical properties				
Density	ISO 1183	—	g/cm ³	1.42
Dimensional properties				
Moulding shrinkage (2mmt)	—	MD	%	1.9
		TD		1.8
Rheological properties				
Melt Volume flow Rate	ISO 1133	—	cm ³ /10min —	21 250°C × 2.16kg
Mechanical properties				
Yield stress	ISO 527-1,2	—	MPa	54
Stress at break	ISO 527-1,2	—	MPa	—
Strain at break	ISO 527-1,2	—	%	30
Flexural strength	ISO 178	—	MPa	90
Flexural modulus	ISO 178	—	MPa	2,500
Charpy impact	ISO 179-1, 2	—	kJ/m ² kJ/m ²	120
		notched		3
Thermal properties				
Melting temperature	ISO 11357-3	—	°C	224
Temperature of deflection under load	ISO 75-1, 2	1.80MPa	°C	77
		0.45MPa		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	—	—	V-2(0.81mmt)
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	—	—	—
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.