

Properties	Test Method	Terms	Units	Unreinforced Flame Retardant
				5710N1TXY
				Highly impact Modified
				—
<b>Physical properties</b>				
Density	ISO 1183	—	g/cm <sup>3</sup>	1.32
<b>Dimensional properties</b>				
Moulding shrinkage (2mmt)	—	MD TD	%	0.9 0.9
<b>Rheological properties</b>				
Melt Volume flow Rate	ISO 1133	—	cm <sup>3</sup> /10min —	12 250°C × 5kg
<b>Mechanical properties</b>				
Yield stress	ISO 527-1,2	—	MPa	55
Stress at break	ISO 527-1,2	—	MPa	—
Strain at break		%	90	
Flexural strength	ISO 178	—	MPa	84
Flexural modulus		MPa	2,400	
Charpy impact	ISO 179-1, 2	—	kJ/m <sup>2</sup> kJ/m <sup>2</sup>	NB
		notched		53
<b>Thermal properties</b>				
Melting temperature	ISO 11357-3	—	°C	224
Temperature of deflection under load	ISO 75-1, 2	1.80MPa	°C	106
		0.45MPa		128
Coefficient of Linear thermal expansion	ISO 11359-2	MD: -30~120°C	1E-5/°C	9.5
		MD: -30~35°C		7.6
		MD: 35~120°C		10.7
		TD: -30~120°C		10.3
		TD: -30~35°C		8.1
TD: 35~120°C	11.9			
Flammability	UL94	—	—	0.74(V0) *BK 1.0(V0) 1.5(V0) 3.0(V0,5VA)
<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	28
		2mmt		—
		3mmt		—
CTI	UL746A	—	—	PLC 0
RTI(Elec)	UL746B	—	—	140
RTI(Imp)	UL746B	—	—	120
RTI(Str)	UL746B	—	—	125
<b>Molding Conditions (Standard example)</b>				
Pre-drying Temperature	—	—	°C	120
Pre-drying Time	—	—	h	5-8
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.