



Product Description	Applications
10% long carbon fiber reinforced PP	Injection molding
Excellent conductivity	Excellent mechanical properties

Properties	Test Method	Test Condition	Unit	Typical Values
Physical properties				
Specific Gravity	ISO 1183	23 ℃	g/cm³	0.96
Ash	ISO 3451	800 ℃ ,30min	%	10
Mechanical properties				
Tensile Strength	ISO 527	5mm/min	MPa	124
Tensile Modulus	ISO 527	1mm/min	MPa	8880
Flexural Strength	ISO 178	2mm/min	MPa	161
Flexural Modulus	ISO 178	2mm/min	MPa	7340
		23 ℃	kJ/m²	27
		-30 ℃		28
		23 ℃	kJ/m²	7.4
		-30 ℃		6.9
Thermal properties				
		1.80MPa	℃	162
		0.45MPa		166
Others properties				
Surface resistance	ESD STM11.11		Ω	< 10 ⁵
Mold Shrinkage ⁽¹⁾	internal test method III	flow direction	%	0.08-0.16
		cross flow direction	% III	0.63-0.83
Flammability	ISO 3795	5mm/min		50
Note: Above data is typical value, not guarantee value. The data will vary with tool design such as				

Note: Above data is typical value, not guarantee value. The data will vary with tool design such as gate type , gate number, injection molding process and part thickness. The data will vary with different color as well. Prior to use consult with Sunway polymer.

Processing Conditions ⁽²⁾		Range ⁽²⁾
Melt Temp.		210-230 ºC
Barrel Zone Temp.	, Rear	210-240 ºC
	, Center	210--220 ºC
	, Front	215--235 ºC
Mold Temp.		30-50 ºC
Pre-Dry needed		90-110 ºC, 2-4h

(1) 210*140*2.8mm

(2)

Note: (1) The dimension of shrinkage plaque is 210*140*2.8mm. The part's shrinkage will have deviation due to part thickness, number of gate and type of gate; It is better to do mold trial on similar tool before cutting a new tool.

(2) The above process condition is only for reference. The actual process should be adjusted according to different type of machine, mold design and product design.

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