

# Titalon® 5100CF

Polycarbonate

Titan Plastics Compounds Co., Ltd.

## Message:

Titalon®5100CF is a polycarbonate (PC) material, which contains a 10% carbon fiber reinforced material. This product is available in the Asia-Pacific region.

Titalon®The main features of 5100CF are:

flame retardant/rated flame

Conductivity

High stiffness

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 10% filler by weight		
Features	Conductivity		
	Rigidity, high		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>1</sup> (3.00 mm)	0.20 - 0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	125	MPa	ISO 527-2
Tensile Strain (Break)	> 3.0	%	ISO 527-2
Flexural Modulus	9800	MPa	ISO 178
Flexural Stress	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	11	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	135	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 - 1.0E+6	ohms	IEC 60093
Volume Resistivity	1.0E+4 - 1.0E+6	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 - 140	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	270 - 300	°C	
Mold Temperature	80.0 - 130	°C	
Injection instructions			
Injection Pressure: 30 to 70%Injection Velocity: 20 to 50%			

## NOTE

1. 50x70x3 mm

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### Recommended distributors for this material

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