

Electroblend® PC-2801

Polycarbonate

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

Message:

Electroblend® PC-2801 is a carbon fiber reinforced, flame retardant polycarbonate compound. This grade offers good moldability and electrically conductive.

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Electrically Conductive		
	Flame Retardant		
	Good Moldability		
Uses	Automotive Applications		
	Business Equipment		
	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.040 to 0.10	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9480	MPa	ASTM D638
Tensile Strength	134	MPa	ASTM D638
Tensile Elongation (Break)	2.3	%	ASTM D638
Flexural Modulus	7790	MPa	ASTM D790
Flexural Strength	193	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 4.00 mm)	133	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+5	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	4.0 to 6.0	hr	

Middle Temperature	240 to 250	°C
Front Temperature	250 to 260	°C
Nozzle Temperature	260 to 270	°C
Processing (Melt) Temp	250 to 270	°C
Mold Temperature	80.0 to 120	°C

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