

## AuroraGuard™ F5PC-PBT SS

Aurora Material Solutions, LLC - Polycarbonate + PBT

### General Information

#### Product Description

Flame Retardant, UV Stable, Electrically Conductive, Chemically Resistant PC-PBT Alloy. Suitable for Outdoor Use.

Formerly known as EnCounter 3F5ECSSU

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Electrically Conductive	• Flame Retardant • UV Resistant	
Uses	• Electrical Housing	• Electrical/Electronic Applications	• Outdoor Applications
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7690	psi	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	308000	psi	ASTM D790
Flexural Strength	10600	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	12	ft·lb/in	ASTM D256
Gardner Impact			ASTM D3029
-30°F	60.0	in·lb	
73°F	150	in·lb	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	210	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+5	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-0		
0.13 in	5VA		

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	230 to 250	°F
Drying Time	2.0 to 6.0	hr
Suggested Max Moisture	2.0E-4	%
Suggested Shot Size	45 to 75	%
Rear Temperature	470 to 520	°F
Middle Temperature	480 to 530	°F
Front Temperature	495 to 540	°F
Nozzle Temperature	490 to 525	°F
Processing (Melt) Temp	500 to 535	°F
Mold Temperature	150 to 200	°F



Back Pressure	50.0 to 100 psi
Screw Speed	40 to 75 rpm
Vent Depth	1.5E-3 to 3.5E-3 in

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

