

## AuroraGuard™ F0PC5GF

Aurora Material Solutions, LLC - Polycarbonate

### General Information

#### Product Description

Flame Retardant, 5% Glass Reinforced, UV Stabilized Structural Foam Grade PC - UL 5VA and V0 compliant  
UL File Number E175765

Formerly known as EnPure F0PC5GF

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 5.0% Filler by Weight		
Additive	• Flame Retardant	• UV Stabilizer	
Features	• Flame Retardant	• UV Stabilized	
Uses	• Electrical/Electronic Applications	• Profiles	
UL File Number	• E175765		
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding	• Profile Extrusion	

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Water Absorption (Equilibrium)	0.12	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7200	psi	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	392000	psi	ASTM D790
Flexural Strength	12000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.5	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	283	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	267	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.59 in	V-0		
0.98 in	5VA		

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	200 to 250	°F
Drying Time	4.0 to 7.0	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 to 75	%
Rear Temperature	550 to 590	°F
Middle Temperature	570 to 610	°F
Front Temperature	590 to 630	°F
Nozzle Temperature	580 to 620	°F



Processing (Melt) Temp	590 to 630 °F
Mold Temperature	180 to 240 °F
Back Pressure	50.0 to 100 psi
Screw Speed	25 to 75 rpm
Vent Depth	1.5E-3 to 3.0E-3 in

#### Notes

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

