

**AuroraGuard™ F0PC30GF**

Aurora Material Solutions, LLC - Polycarbonate

**General Information**
**Product Description**

UL94 V-0 30% Glass Filled, Flame Retardant, Polycarbonate w/ release

Formerly known as EnPure F0PC30GF

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Flame Retardant • Mold Release
Features	• Flame Retardant • Good Mold Release
Uses	• Electrical/Electronic Applications
Appearance	• Black • Colors Available • Natural Color
Processing Method	• Injection Molding • Profile Extrusion

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.48		ASTM D792
Molding Shrinkage - Flow (0.126 in)	1.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (Equilibrium)	0.15	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength (Yield)	15800	psi	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength	22500	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F)	1.2	ft·lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	301	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	275	°F	ASTM D648
<b>Flammability</b>			
Flame Rating (0.06 in)	V-0		UL 94

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	200 to 250	°F
Drying Time	4.0	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

**Injection Notes**

Maximum Drying Time 7.0 hrs.

