

**AuroraGuard™ F5PC10GFU**

Aurora Material Solutions, LLC - Polycarbonate

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

Flame Rated (V-0 5VA), Outdoor Suitability (f2), Polycarbonate with UV Stabilizer

Formerly known as EnPure F5PC10GFU

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• UV Stabilizer		
Features	• Good Weather Resistance	• UV Stabilized	
Appearance	• Black	• Grey	
Processing Method	• Injection Molding		

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.26		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	2.0E-3 to 4.0E-3	in/in	Internal Method
Outdoor Suitability	f2		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8990	psi	ASTM D638
Flexural Modulus	480000	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)	286	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	280	°F	ASTM D648
RTI Elec			UL 746B
0.06 in	239	°F	
0.10 in	239	°F	
0.12 in	248	°F	
RTI Imp			UL 746B
0.06 in	221	°F	
0.10 in	221	°F	
0.12 in	230	°F	
RTI Str			UL 746B
0.06 in	239	°F	
0.10 in	239	°F	
0.12 in	248	°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-0		
0.10 in	• V-0		
	• 5VA		
0.12 in	• V-0		
	• 5VA		

**Processing Information**

Injection	Nominal Value	Unit
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Drying Temperature	250 °F
Drying Time	4.0 to 6.0 hr
Rear Temperature	540 to 590 °F
Middle Temperature	540 to 590 °F
Front Temperature	540 to 590 °F
Processing (Melt) Temp	560 to 610 °F
Mold Temperature	160 to 220 °F
Injection Rate	Slow-Moderate
Back Pressure	50.0 to 100 psi
Cushion	0.250 to 0.500 in

#### Notes

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

