

## AuroraGuard™ F51508

Aurora Material Solutions, LLC - Polycarbonate + ABS

### General Information

#### Product Description

Flame Retardant Injection Grade PC/ABS Alloy

Formerly known as EnValoy F51508

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant		
Features	• Flame Retardant		
Uses	• Appliances	• Electrical/Electronic Applications	• Power/Other Tools
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

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

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.19		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	6.0E-3	in/in	ASTM D955
<b>Mechanical</b>			
Tensile Strength (Yield)	8000	psi	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	345000	psi	ASTM D790
Flexural Strength	13500	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F)	8.0	ft-lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	216	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	198	°F	ASTM D648
<b>Flammability</b>			
Flame Rating			UL 94
0.06 in		V-0	
0.10 in		5VA	

### Processing Information

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	185	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.040	%
Rear Temperature	420 to 480	°F
Middle Temperature	420 to 500	°F
Front Temperature	460 to 520	°F
Nozzle Temperature	460 to 520	°F
Processing (Melt) Temp	460 to 520	°F
Mold Temperature	130 to 180	°F

#### Injection Notes

Maximum Drying Time 4.0 hrs.

