

AuroraGuard™ F53010

Aurora Material Solutions, LLC - Polycarbonate + ABS

General Information
Product Description

Flame Retardant Injection Grade PC/ABS Alloy

Formerly known as EnValoy F53010

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin 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 ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.19		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8600	psi	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	345000	psi	ASTM D790
Flexural Strength	13000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	10	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	216	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	195	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-0		
0.12 in	5VA		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	185	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
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

Max drying time 4 hrs

