

## AuroraGuard™ 10GF3002U

Aurora Material Solutions, LLC - Polycarbonate + ABS

### General Information

#### Product Description

Glass Filled, High Flow, High Flex Modulus, UV Reistant, PC/ABS

Formerly known as EnValoy 10GF3002U

#### General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	• High Flow • UV Resistant
Uses	• Appliances • Electrical/Electronic Applications • Power/Other Tools
Appearance	• Black • Colors Available • Natural Color
Processing Method	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	4.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	10900	psi	ASTM D638
Tensile Elongation (Break)	> 10	%	ASTM D638
Flexural Modulus	525000	psi	ASTM D790
Flexural Strength	15000	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)	265	°F	ASTM D648

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	220	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	460 to 490	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 510	°F
Nozzle Temperature	480 to 520	°F
Processing (Melt) Temp	460 to 520	°F
Mold Temperature	130 to 190	°F
Back Pressure	30.0 to 70.0	psi
Injection Notes		
Maximum Drying Time 4.0 hrs		

