

AuroraGuard™ 2010GF

Polyphenylene Ether + PS

Aurora Material Solutions, LLC

PROSPECTOR®

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Technical Data

Product Description

20% Glass Filled PPE/PS Alloy

Formerly known as EnLoy 2010GF

General

Material Status	• Commercial: Active
Literature ¹	• Literature Library • Technical Datasheet
Search for UL Yellow Card	• Aurora Material Solutions, LLC • AuroraGuard™
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Uses	• Automotive Applications • Business Equipment
Appearance	• Black • Colors Available • Natural Color
Processing Method	• Injection Molding • Profile Extrusion

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.13 g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.50 %	ASTM D955

Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield)	57.0 MPa	ASTM D638
Tensile Elongation (Break)	3.0 %	ASTM D638
Flexural Modulus	3790 MPa	ASTM D790
Flexural Strength	97.0 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	96 J/m	ASTM D256

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	128 °C	
1.8 MPa, Unannealed	122 °C	

Flammability	Nominal Value Unit	Test Method
Flame Rating (1.6 mm)	HB	UL 94

Injection	Nominal Value Unit
Drying Temperature	93 to 107 °C
Drying Time	2.0 to 4.0 hr
Suggested Max Moisture	0.020 %
Suggested Shot Size	40 to 75 %
Rear Temperature	260 to 299 °C
Middle Temperature	266 to 304 °C
Front Temperature	277 to 310 °C
Nozzle Temperature	288 to 310 °C
Processing (Melt) Temp	288 to 310 °C
Mold Temperature	77 to 104 °C



Injection	Nominal Value Unit
Back Pressure	0.172 to 0.689 MPa
Screw Speed	20 to 100 rpm
Vent Depth	0.038 to 0.076 mm

Injection Notes

Maximum Drying Time 4.0 hrs.

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

