

AuroraGuard™ PPENylon120GF

Aurora Material Solutions, LLC - Polyphenylene Ether + PA

General Information

Product Description

20% Glass Filled PPE/PA Alloy

Formerly known as EnLoy 120GF

General

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

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24		ASTM D792
Molding Shrinkage - Flow (0.126 in)	3.0E-3 to 5.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	14500	psi	ASTM D638
Tensile Elongation (Break)	7.0	%	ASTM D638
Flexural Modulus	725000	psi	ASTM D790
Flexural Strength	24100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.4	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	441	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	405	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	200 to 225	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Suggested Shot Size	40 to 75	%
Rear Temperature	500 to 570	°F
Middle Temperature	510 to 570	°F
Front Temperature	520 to 570	°F
Nozzle Temperature	530 to 570	°F
Processing (Melt) Temp	530 to 570	°F
Mold Temperature	150 to 250	°F
Back Pressure	25.0 to 100	psi
Screw Speed	20 to 100	rpm
Vent Depth	1.5E-3 to 3.0E-3	in

Injection Notes

Maximum Drying Time 4 hrs

