

**AuroraGuard™ 61250GFHS**

Aurora Material Solutions, LLC - Polyamide 612

**General Information**
**Product Description**

Heat Stabilized, 50% Glass Filled Nylon 612, high Strength after conditioning. Lower Moisture absorption than Nylon 66 or Nylon 6.

Advantages over nylon 66: Lower Water Absorption, Lower Brittle Temperature, Better UV resistance

Formerly known as EnLo

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Stabilized • Low Moisture Absorption • High Strength • UV Resistant
Uses	• Automotive Applications • Industrial Applications
Appearance	• Black
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.51		ASTM D792
Molding Shrinkage - Flow (0.126 in)	2.0E-3	in/in	ASTM D955
Water Absorption (Saturation)	0.90	%	ASTM D570
<b>Mechanical</b>			
Tensile Modulus	2.00E+6	psi	ASTM D638
Tensile Strength (Yield)	33000	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	2.00E+6	psi	ASTM D790
Flexural Strength	50000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact			ASTM D256
-40°F	2.5	ft·lb/in	
73°F	3.0	ft·lb/in	
<b>Thermal</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	420	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	400	°F	ASTM D648

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	470 to 500	°F
Middle Temperature	480 to 510	°F
Front Temperature	490 to 520	°F
Nozzle Temperature	490 to 520	°F
Processing (Melt) Temp	470 to 530	°F
Mold Temperature	120 to 200	°F
Back Pressure	20.0 to 60.0	psi



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Screw Speed

60 to 120 rpm

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**Injection Notes**

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Maximum Drying Time 4.0 hrs

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**Notes**

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<sup>1</sup> Typical properties: these are not to be construed as specifications.

