

**AuroraGuard™ 6650GFHSV**

Aurora Material Solutions, LLC - Polyamide 66

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

Heat Stabilized, 50% Glass Fiber Reinforced Nylon 66

Formerly known as EnLon 6650GFHSV

**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
Uses	• Automotive Applications • Industrial Applications
Appearance	• Black • Colors Available • Natural Color
Processing Method	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.57		ASTM D792
Molding Shrinkage - Flow (0.126 in)	3.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	31000	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	1.80E+6	psi	ASTM D790
Flexural Strength	46000	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)	500	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	490	°F	ASTM D648

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	490 to 560	°F
Middle Temperature	510 to 570	°F
Front Temperature	520 to 570	°F
Nozzle Temperature	540 to 570	°F
Processing (Melt) Temp	500 to 570	°F
Mold Temperature	160 to 240	°F
Injection Notes		
Maximum Drying Time 4.0 hrs		

