

AuroraGuard™ 650GFHSL

Aurora Material Solutions, LLC - Polyamide 6

General Information

Product Description

50% Glass Fiber Reinforced, Heat Stabilized Nylon 6

Formerly known as EnLon 650GFHSL

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
Appearance	• Black • Colors Available • Natural Color
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.57		ASTM D792
Molding Shrinkage - Flow (0.126 in)	1.0E-3 to 3.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	30000	psi	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	2.00E+6	psi	ASTM D790
Flexural Strength	44000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	3.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	410	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	185	°F
Drying Time	3.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	428 to 500	°F
Middle Temperature	446 to 509	°F
Front Temperature	482 to 518	°F
Mold Temperature	131 to 203	°F
Back Pressure	50.8 to 102	psi
Screw Speed	60 to 90	rpm

