

AuroraGuard™ F0610GF

Aurora Material Solutions, LLC - Polyamide 6

General Information

Product Description

10% Glass Filled Nylon 6, flame retardant
Formerly known as EnLon F0610GF

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Features	• Flame Retardant		
Uses	• Automotive Applications		
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.42		ASTM D792
Molding Shrinkage - Flow (0.126 in)	4.0E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow	8.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	12500	psi	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	500000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	400	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.13 in)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	165	°F
Drying Time	4.0 to 8.0	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	25 to 75	%
Rear Temperature	430 to 480	°F
Middle Temperature	440 to 490	°F
Front Temperature	450 to 500	°F
Nozzle Temperature	450 to 500	°F
Processing (Melt) Temp	460 to 500	°F
Mold Temperature	160 to 200	°F
Back Pressure	20.0 to 60.0	psi
Screw Speed	50 to 120	rpm

