

AuroraGuard™ 61230GFHS

Aurora Material Solutions, LLC - Polyamide 6/12 Copolymer

General Information

Product Description

Heat Stabilized, 30% 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 EnLon 6

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized • High Strength	• Low Moisture Absorption • Low Temperature Brittleness Resistant	• UV Resistant
Uses	• Automotive Applications	• Industrial Applications	• Material Handling
Appearance	• Black		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.27		ASTM D792
Molding Shrinkage - Flow (0.126 in)	1.5E-3 to 4.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	790000	psi	ASTM D638
Tensile Strength (Yield)	17000	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	810000	psi	ASTM D790
Flexural Strength	15000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	330	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	270	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
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
Screw Speed	60 to 120	rpm

Injection Notes

Maximum Drying Time 4 hrs

