

## AuroraGuard™ 1000 BN-3569

Aurora Material Solutions, LLC - Polyamide 66

### General Information

#### Product Description

AuroraGuard™ 1000 BN-3569 is an Unreinforced, Heat-Stabilized, Lubricated, Brown, Nylon 66 Injection Molding Grade.

Formerly Branded as ENVIROLON

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Uses	• Automotive Applications	• Construction Applications	• Industrial Applications
Appearance	• Brown		
Processing Method	• Injection Molding		

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Molding Shrinkage - Across Flow	0.013 to 0.015	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	9800	psi	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	390000	psi	ASTM D790
Flexural Strength	15900	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 (66 psi, Unannealed)	428	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	149	°F	ASTM D648
Melting Temperature	490	°F	

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	480 to 530	°F
Middle Temperature	500 to 550	°F
Front Temperature	520 to 570	°F
Nozzle Temperature	520 to 570	°F
Processing (Melt) Temp	520 to 570	°F
Mold Temperature	150 to 200	°F

#### Injection Notes

Maximum Drying Time 5.0 hrs

