

AuroraGuard™ 66HSL

Aurora Material Solutions, LLC - Polyamide 66

General Information
Product Description

Heat Stabilized, Internally Lubricated Nylon 66

Formerly known as EnLon 66HSL

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Heat Stabilizer	• Lubricant	
Features	• Heat Stabilized	• Lubricated	
Uses	• Automotive Applications	• Industrial Applications	
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.14	1.14		ASTM D792
Molding Shrinkage - Flow (0.126 in)	0.014	--	in/in	ASTM D955
Molding Shrinkage - Across Flow	0.014	--	in/in	ASTM D955
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Yield)	12000	8000	psi	ASTM D638
Tensile Elongation (Break)	45	110	%	ASTM D638
Flexural Modulus	440000	190000	psi	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (73°F)	1.0	2.0	ft·lb/in	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	316	316	°F	ASTM D648

Processing Information

Injection	Dry Unit
Drying Temperature	175 °F
Drying Time	2.0 to 4.0 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	120 to 190 °F

Injection Notes

Maximum Drying Time 4 hrs.

