

AuroraGuard™ 6627GF

Aurora Material Solutions, LLC - Polyamide 66

General Information
Product Description

27% Glass Filled Nylon 66, Heat Stabilized, Lubricated

Formerly known as EnLon 6627GF

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 27% Filler by Weight
Uses	• Automotive Applications
Appearance	• Black • Colors Available • Natural Color
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30		ASTM D792
Molding Shrinkage - Flow (0.126 in)	3.0E-3	in/in	ASTM D955
Water Absorption (Equilibrium)	1.8	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	23000	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength	30000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.4	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	487	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	165	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	2.0E-3	%
Rear Temperature	550 to 570	°F
Middle Temperature	530 to 550	°F
Front Temperature	510 to 530	°F
Nozzle Temperature	540 to 560	°F
Processing (Melt) Temp	550 to 580	°F
Mold Temperature	150 to 210	°F
Back Pressure	20.0 to 60.0	psi
Screw Speed	40 to 120	rpm

Injection Notes

Maximum Drying Time 4.0 hrs

