

AuroraGuard™ 6620CF

Aurora Material Solutions, LLC - Polyamide 66

General Information
Product Description

20% Carbon Fiber Filled Nylon 66

Formerly known as EnLon 6620CF

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Carbon Fiber, 20% Filler by Weight
Uses	• Automotive Applications • Industrial Applications
Appearance	• Black • Colors Available • Natural Color
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.23		ASTM D792
Molding Shrinkage - Flow (0.126 in)	5.0E-3 to 8.0E-3	in/in	ASTM D955
Water Absorption (Saturation)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	30000	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	2.25E+6	psi	ASTM D790
Flexural Strength	48000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.3	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	470	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	165 to 200	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	460 to 540	°F
Middle Temperature	460 to 540	°F
Front Temperature	470 to 565	°F
Nozzle Temperature	470 to 565	°F
Processing (Melt) Temp	485 to 565	°F
Mold Temperature	160 to 220	°F

Injection Notes

Maximum Drying Time 4.0 hrs

