

AuroraGuard™ 6616GFIM

Aurora Material Solutions, LLC - Polyamide 66

General Information

Product Description

16% Glass Filled, Impact Modified Nylon 66

Formerly known as EnLon 6616GFIM

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 16% Filler by Weight
Additive	• Impact Modifier
Features	• Impact Modified
Uses	• Automotive Applications • Industrial Applications
Appearance	• Black • Colors Available • Natural Color
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.19		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			
Tensile Strength (Yield)	14000	psi	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	550000	psi	ASTM D790
Flexural Strength	22000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	4.0	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	428	°F	ASTM D648
Flammability			
Flame Rating (0.06 in)	HB		UL 94

Processing Information

	Nominal Value	Unit
Injection		
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

