AuroraGuard™ 640GFW

Aurora Material Solutions, LLC - *Polyamide 6*

General Information

Product Description			
Wear Resistant, Heat Stabilized, Lubricated, 40% Glass Filled Nylon 6 Formerly known as EnLon 640GFW			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Additive	• Heat Stabilizer	• Lubricant	
Features	• Heat Stabilized	• Lubricated	• Wear Resistant
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	1.45		ASTM D792
Molding Shrinkage - Flow (0.126 in)	2.0E-3	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	29000	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	1.50E+6	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	2.5	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	390	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	400	°F	ASTM D648

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature	180	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	490 to 540	°F
Middle Temperature	510 to 550	°F
Front Temperature	520 to 570	°F
Nozzle Temperature	540 to 570	°F
Processing (Melt) Temp	500 to 570	°F
Mold Temperature	160 to 210	°F
Injection Notes		
Maximum Drying Time 4.0 hrs		

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