

AuroraTec™ EPA71N-BK

Aurora Material Solutions, LLC - Polyamide 6

General Information

Product Description

AuroraTec™ EPA71N-BK is a 40% glass fiber reinforced Nylon 6 black.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Uses	• Automotive Applications • Industrial Applications
Appearance	• Black
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.43		ASTM D792
Molding Shrinkage - Flow (0.126 in)	1.0E-3 to 3.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	26800	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	1.44E+6	psi	ASTM D790
Flexural Strength	38400	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.9	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	407	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	430 to 450	°F
Middle Temperature	480 to 500	°F
Front Temperature	490 to 520	°F
Nozzle Temperature	490 to 520	°F
Processing (Melt) Temp	500 to 570	°F
Mold Temperature	160 to 210	°F
Injection Notes		
Maximum Drying Time 4.0 hrs		

