

AuroraGuard™ PX7006

Aurora Material Solutions, LLC - Polyamide

General Information

Product Description

30% Glass Filled, Amorphous Nylon
Formerly known as EnLon PX7006

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Amorphous
Uses	• Metal Replacement
Appearance	• Black
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.22		ASTM D792
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	40	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	0.0	in/in	ASTM D955
Water Absorption (Saturation, 68°F)	5.8	%	ASTM D570
Water Absorption (Equilibrium, 65% RH)	3.1	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	700000	psi	ASTM D638
Tensile Strength (Yield)	14500	psi	ASTM D638
Tensile Elongation (Break)	2.3	%	ASTM D638
Flexural Modulus	650000	psi	ASTM D790
Flexural Strength	24100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.81	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	401	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	2.0 to 12	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	25 to 75	%
Rear Temperature	500 to 540	°F
Middle Temperature	510 to 550	°F
Front Temperature	520 to 560	°F
Nozzle Temperature	520 to 560	°F
Processing (Melt) Temp	520 to 560	°F
Mold Temperature	250 to 285	°F
Back Pressure	25.0 to 75.0	psi
Screw Speed	60 to 120	rpm
Vent Depth	1.0E-3	in

