AuroraGuard™ F5PC10GF

Aurora Material Solutions, LLC - *Polycarbonate*

General Information

Product Description

Flame Retardant, 10% Glass Filled, UV Stabilized Polycarbonate
UL94 5VA & V-0 10%GF FR PC with Elevated RTI
UL Yellow Card File number E175765

Formerly known as EnPure F5PC10GF

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Additive	• Flame Retardant	• UV Stabilizer	
Features	• Flame Retardant	• UV Stabilized	
Uses	• Electrical/Electronic Applications	• Profiles	
UL File Number	• E175765		
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding	• Profile Extrusion	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.25		ASTM D792
Molding Shrinkage - Flow (0.126 in)	2.0E-3 to 4.0E-3	in/in	ASTM D955
Water Absorption (Equilibrium)	0.12	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	8000	psi	ASTM D638
Tensile Strength (Break)	6500	psi	ASTM D638
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	450000	psi	ASTM D790
Flexural Strength	7500	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)	296	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	290	°F	ASTM D648
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.06 in	V-0		
0.10 in	5VA		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	200 to 250	°F
Drying Time	4.0 to 7.0	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 to 75	%
Rear Temperature	550 to 590	°F
Middle Temperature	570 to 610	°F
Front Temperature	590 to 630	°F

Nozzle Temperature	580 to 620	°F
Processing (Melt) Temp	590 to 630	°F
Mold Temperature	180 to 240	°F
Back Pressure	50.0 to 100	psi
Screw Speed	25 to 75	rpm
Vent Depth	1.5E-3 to 3.0E-3	in

Notes

[1] Typical properties: these are not to be construed as specifications.