AuroraGuard™ F1PC/ABS

Aurora Material Solutions, LLC - *Polycarbonate + ABS*

General Information

Product Description			
Flame Retardant, UV Stabilized Injection Grade Alloy Formerly known as GEP F1PC/ABS			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant	• UV Stabilizer	
Features	• Flame Retardant	• UV Stabilized	
Uses	• Appliances	• Electrical/Electronic Applications	• Power/Other Tools
Appearance	• Black • Colors Available	• Natural Color • White	
Processing Method	• Injection Molding		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.18		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	5.0E-3	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	8850	psi	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	380000	psi	ASTM D790
Flexural Strength	13500	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	10	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	216	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	201	°F	ASTM D648
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in)	V-1		UL 94

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature	185	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.040	%
Rear Temperature	420 to 480	°F
Middle Temperature	420 to 500	°F
Front Temperature	460 to 520	°F
Nozzle Temperature	460 to 520	°F
Processing (Melt) Temp	460 to 520	°F
Mold Temperature	130 to 180	°F
Injection Notes		
Maximum Drying Time 4 hrs		