AuroraGuard™ GPP6100-116C
Aurora Material Solutions, LLC - *Polypropylene*

General Information

Product Description

A specially engineered, low bloom, low specific gravity, flame retardant polypropylene compound designed with halogen-based technology. Exhibits a unique balance of high flexural modulus and high impact. It is designed for use in injection molded industrial power supply systems and to meet their stringent criterion. The superior balance of flow, allows the material to maintain excellent aesthetics over long flow lengths.

Note: Additional custom color matching is available upon request.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Flame Retardant		
Features	• Flame Retardant	• High Impact Resistance	
	• Good Flow	• Low Blooming	
Uses	• Industrial Applications		
Appearance	• Colors Available		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14 to 1.17		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16 to 20	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	3800	psi	ASTM D638
Tensile Strength (Break)	2600	psi	ASTM D638
Tensile Elongation (Break)	28	%	ASTM D638
Flexural Modulus - Tangent	325000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	0.60	ft·lb/in	ASTM D256
Instrumented Dart Impact [2]	112	in·lb	ASTM D5420
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	225	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	130	°F	ASTM D648
Vicat Softening Temperature	299	°F	ASTM D1525
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength (0.134 in, Method A (Short-Time))	480	V/mil	ASTM D149
Breakdown Voltage	64.0	%	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in)	V-0		UL 94
Oxygen Index	25	%	ASTM D2863
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Electro-Chemical Compatibility	Pass		

Notes

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

[2] GB