

AuroraGuard™ GPP6100-116-40

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	1.15 to 1.19		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16 to 20	g/10 min	ASTM D1238
Molding Shrinkage - Flow ²	0.014	in/in	ASTM D638
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	3310	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	0.84	ft·lb/in	ASTM D256
Instrumented Dart Impact ³	102	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	298	°F	ASTM D1525
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94
Oxygen Index	25	%	ASTM D2863

Notes

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

² Sample Bars

³ GB

