

AuroraGuard™ GPP-1001DK

Aurora Material Solutions, LLC - Polypropylene

General Information
Product Description

A UL-94 V-0 rated, polypropylene compound designed for injection molded industrial battery, electrical housing or appliance applications. It affords medium impact resistance with a high level of flame retardancy

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Flame Retardant		
Features	• Flame Retardant	• Medium Impact Resistance	
Uses	• Appliance Components	• Electrical Housing	• Industrial Applications
	• Batteries	• Electrical/Electronic Applications	
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.960 to 1.00		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0 to 7.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	2700	psi	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Flexural Modulus - Tangent	150000	psi	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1.7	ft·lb/in	ASTM D256
Instrumented Dart Impact	180	in·lb	ASTM D5420
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	67 to 73		ASTM D2240
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94
Oxygen Index (0.125 in)	35	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	340	°F
Cylinder Zone 2 Temp.	360	°F
Cylinder Zone 3 Temp.	370	°F
Cylinder Zone 4 Temp.	375	°F
Melt Temperature	365	°F
Die Temperature	375 to 380	°F

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