

AuroraFlex™ GPP-1001

Aurora Material Solutions, LLC - *Thermoplastic Elastomer*
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	• Appliances • Batteries • Electrical Housing
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04 to 1.10		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ²	3000	psi	ASTM D412
Tensile Elongation ² (Break)	600	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	36 to 42		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ³	< -76.0	°F	ASTM D746
UL Temperature Rating	257	°F	UL 1581
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength (316°F, 336 hr)	-17	%	
Change in Ultimate Elongation (316°F, 336 hr)	-15	%	
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Oxygen Index (0.125 in)	35	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	330	°F
Cylinder Zone 2 Temp.	350	°F
Cylinder Zone 3 Temp.	360	°F
Cylinder Zone 4 Temp.	365	°F
Melt Temperature	365	°F
Die Temperature	360 to 375	°F

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

² Die C

³ 75mil
