

AuroraFlex™ GA-509OR

Aurora Material Solutions, LLC - Polyvinyl Chloride

General Information
Product Description

A flame retardant, UV and oil resistant, 90°C PVC based compound with a matte finish and good low temperature properties. Compound is RoHS compliant and meets VW1 requirements.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Flame Retardant		
Features	• Flame Retardant	• Oil Resistant	• UV Resistant
Uses	• Aerospace Applications	• Consumer Applications	• Furniture
	• Agricultural Applications	• Electrical/Electronic Applications	• Medical/Healthcare Applications
	• Appliances	• Energy Storage	• Personal Care
	• Automotive Applications	• Film	• Sheet
	• Capstock	• Footwear	
RoHS Compliance	• RoHS Compliant		
Appearance	• Matte Finish		
Processing Method	• Extrusion		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.40 to 1.44		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	2000	psi	ASTM D412
Tensile Elongation (Break)	350	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	78 to 84		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-11.2	°F	ASTM D746
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength			UL Unspecified
212°F, 96 hr, in Oil	18	%	
250°F, 168 hr	8.0	%	
Change in Ultimate Elongation			UL Unspecified
212°F, 96 hr, in Oil	-35	%	
250°F, 168 hr	-27	%	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	28	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	194 to 212	°F
Drying Time	4.0	hr
Cylinder Zone 1 Temp.	309	°F
Cylinder Zone 2 Temp.	320	°F
Cylinder Zone 3 Temp.	331	°F
Cylinder Zone 4 Temp.	340	°F
Cylinder Zone 5 Temp.	351	°F
Adapter Temperature	351	°F



Melt Temperature	351 °F
Die Temperature	351 °F

Notes

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

