

AuroraFlex™ GA-1050OR4

Aurora Material Solutions, LLC - Polyvinyl Chloride

General Information
Product Description

PVC insulation 105°C rated compound for SEOO and STOO application with excellent low temperature properties.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Low Temperature Toughness		
Uses	• Insulation		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.24 to 1.30		ASTM D792
Melt Mass-Flow Rate (MFR) (175°C/21.6 kg)	22	g/10 min	ASTM D1238
Elastomers			
Tensile Strength (Break)	2490	psi	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Hardness			
Durometer Hardness (Shore A, 15 sec)	72 to 78		ASTM D2240
Thermal			
Brittleness Temperature	-32.8	°F	ASTM D746
Deformation - 2 kg (302°F)	55	%	UL 2556
Temperature Rating	221	°F	UL 1581
Aging			
Change in Tensile Strength			
140°F, 168 hr, in IRM 902 Oil	25	%	
277°F, 168 hr	10	%	
Change in Ultimate Elongation			
140°F, 168 hr, in IRM 902 Oil	-10	%	
277°F, 168 hr	-6.0	%	
Electrical			
Volume Resistivity	1.4E+13	ohms·cm	ASTM D257
Flammability			
Oxygen Index	24	%	ASTM D2863

Processing Information

	Nominal Value	Unit
Extrusion		
Cylinder Zone 1 Temp.	300	°F
Cylinder Zone 2 Temp.	320	°F
Cylinder Zone 3 Temp.	325	°F
Cylinder Zone 4 Temp.	355	°F
Melt Temperature	325 to 355	°F
Die Temperature	340 to 350	°F

