

AuroraFlex™ GA 18063

Aurora Material Solutions, LLC - Flexible Polyvinyl Chloride

General Information
Product Description

An unconventional TPE like PVC formulation suitable for 105°C SJEO/ SEOOW cable and UL 62 cord capable of meeting 60°C oil requirements. This compound is able to perform as a TPE and pass a deformation test at 150°C.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Oil Resistant		
Uses	• Electronic Insulation	• Jacketing	• Wire & Cable Applications
Appearance	• Colors Available		
Processing Method	• Extrusion		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.23		ASTM D792
Melt Mass-Flow Rate (MFR) (175°C/21.6 kg)	8.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	2200	psi	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	72		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-40.0	°F	ASTM D746
Deformation - 2 kg (302°F)	40	%	UL 2556
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength			ASTM D412
140°F, 168 hr, in IRM 902 Oil	-11	%	
277°F, 168 hr	0.0	%	
Change in Ultimate Elongation			ASTM D412
140°F, 168 hr, in IRM 902 Oil	-19	%	
277°F, 168 hr	-16	%	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index ²	24	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	330	°F
Cylinder Zone 2 Temp.	335	°F
Cylinder Zone 3 Temp.	345	°F
Cylinder Zone 4 Temp.	355	°F
Melt Temperature	335 to 345	°F
Die Temperature	355 to 360	°F

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

² Value is intended for reference only
