

AuroraFlex™ 4278A

Aurora Material Solutions, LLC - Polyvinyl Chloride

General Information

Product Description

A 105°C , UV resistant, flame retardant, RoHS Compliant, oil resistant jacketing material with good low temperature properties.

Note: Additional custom color matching is available upon request. Preliminary data.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Flame Retardant		
Features	• Flame Retardant	• Oil Resistant	
	• Low Temperature Toughness	• UV Resistant	
Uses	• Jacketing		
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available		

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.27 to 1.33		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	986	psi	ASTM D638
Tensile Strength ²	2200	psi	ASTM D412
Tensile Elongation ² (Break)	470	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	75 to 81		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ³	-52.6	°F	ASTM D746
Temperature Rating	221	°F	UL 1581
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength (277°F, 168 hr)	3.0	%	ASTM D412
Change in Ultimate Elongation (277°F, 168 hr)	-15	%	ASTM D412
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (0.125 in)	24	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	310	°F
Cylinder Zone 2 Temp.	320	°F
Cylinder Zone 3 Temp.	330	°F
Cylinder Zone 4 Temp.	340	°F
Melt Temperature	340	°F
Die Temperature	345 to 350	°F

Notes

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

² Die C

³ 75 mil
