

AuroraGuard™ 2020-1

Aurora Material Solutions, LLC - Polyvinyl Chloride

General Information
Product Description

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

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.33 to 1.39		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	2390	psi	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	69 to 75		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-43.6	°F	ASTM D746
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength			UL Unspecified
212°F, 96 hr, in IRM 902 Oil	-5.0	%	
277°F, 168 hr	10	%	
Change in Ultimate Elongation			UL Unspecified
212°F, 96 hr, in IRM 902 Oil	-25	%	
277°F, 168 hr	-30	%	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	31	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	315 to 340	°F
Cylinder Zone 2 Temp.	315 to 340	°F
Cylinder Zone 3 Temp.	315 to 340	°F
Cylinder Zone 4 Temp.	315 to 340	°F
Cylinder Zone 5 Temp.	315 to 340	°F
Melt Temperature	345	°F
Die Temperature	340 to 345	°F

