

Axiall PVC 19900 BIO

Flexible Polyvinyl Chloride

Axiall Corporation

Message:

105C, VW-1 rated non-lead insulation with good flexibility. Ideally suited for 1/64 wall (18 AWG and larger). UL approved for tW, THW, THHW applications. Fungus resistant per ASTM G-21.

General Information	
Uses	Insulation
	Wire & Cable Applications
Wire Types	THHW
	THW
	TW
	VW-1
Agency Ratings	ASTM G 21
	UL Type THHW
	UL Type THW
	UL Type TW
	UL VW-1

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29 to 1.35	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	88 to 94		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
--	16.9	MPa	
100% Strain	12.4	MPa	
Tensile Elongation (Break)	330	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Change in Ultimate Elongation in Air ¹ (136°C, 3264 hr)	-20	%	UL 1581
Change in Ultimate Elongation ² (100°C, 96 hr, in Oil)	-14	%	UL 1581
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-24.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (-5°C)	1.5E+15	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method

Oxygen Index	28	%	ASTM D2863
Extrusion	Nominal Value	Unit	
Melt Temperature	185	°C	
NOTE			
1.	30 mil slabs		
2.	30 mil slabs		

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