

Westlake PVC 19901

Westlake Chemical Corporation - Flexible Polyvinyl Chloride

Friday, September 20, 2019

General Information

Product Description

105 C; VW-1 non-lead stabilized insulation with good flexibility. Ideally suited for 1/64 wall (18 AWG and larger). UL approved for TW, THW, THHW applications.

UL Recognized Component for TW, THW, THHW. VW-1 rated

General

Material Status	• Commercial: Active	
Availability	• North America	
Additive	• Unspecified Stabilizer	
Features	• Good Flexibility	• Low (to None) Lead Content
Uses	• Wire & Cable Applications	
Wire Types	• THHW • THW	• TW • VW-1
Processing Method	• Wire & Cable Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30 to 1.34	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant	12.4	MPa	ASTM D638
Tensile Strength	16.9	MPa	ASTM D638
Tensile Elongation (Break)	330	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 3 sec)	90		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-24.0	°C	ASTM D746
Aging	Nominal Value	Unit	Test Method
Change in Ultimate Elongation in Air ² (136°C, 168 hr)	-20	%	UL 1581
Change in Ultimate Elongation (100°C, 96 hr, in Oil)	-14	%	UL 1581
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ³ (23°C)	1.5E+15	ohms-cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-1		UL 94
Oxygen Index	28	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	185	°C

Notes

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

² 30 mil slabs

³ 50% RH

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