

Manner Flexible PVC V903 NAT601

Flexible Polyvinyl Chloride

Manner Plastics, L.P.

Message:

Recommended Applications: 105°C TW/THHW/THHN/THWN/THWN-2 insulation compound. V903 is UL QMTT2 recognized for THWN-2 on all wire sizes. CV903 meets VW-1, Oil Res I and sunlight resistance in all colors. This product complies with the European Union Restriction of Hazardous Substances (RoHS) Directive.

General Information			
Features	Sunlight Resistant		
Uses	Insulation		
	Wire & Cable Applications		
Agency Ratings	UL I Oil Rating		
	UL QMTT2		
	UL Type THHN		
	UL Type THHW		
	UL Type THWN		
	UL Type THWN-2		
	UL Type TW		
	UL VW-1		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29 to 1.33	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore C	77 to 83		
Shore C, 10 sec	67 to 73		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant ¹	15.2	MPa	ASTM D638
Tensile Strength ²	23.4	MPa	ASTM D638
Tensile Elongation ³ (Break)	350	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air ⁴ (136°C, 168 hr)	-4.0	%	UL 1581
Change in Ultimate Elongation in Air ⁵ (136°C, 168 hr)	-5.0	%	UL 1581
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-15.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+18	ohms · cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Oxygen Index	30	%	ASTM D2863
NOTE			
1.	Unaged Dumbbell: .03 inch		
2.	Unaged Dumbbell: .03 inch		
3.	Unaged Dumbbell: .03 inch		
4.	Air Aged: .03 inch		
5.	Air Aged: .03 inch		

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