

Geon™ Vinyl Wire & Cable WEMB410B

Flexible Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Wire & Cable WEMB410A is a Flexible Polyvinyl Chloride product. It can be processed by extrusion or extrusion coating and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Wire & Cable.

Characteristics include:

RoHS Compliant, THWN, THWN-2, THHN, THHW, THW, THW-2, TW,

General Information			
Features	Flame retardancy		
Uses	Building wire insulation material		
	Wire and cable applications		
	Insulating material		
	Moisture-resistant insulating material		
Wire Types	THHN		
	THHW		
	THW		
	THW-2		
	THWN		
	THWN-2		
	TW		
Agency Ratings	UL I oil grade		
	UL QMTT2		
	UL VW-1		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 15 seconds	93		ASTM D2240
Shaw D, 15 seconds	44		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	22.1	MPa	ASTM D638

Tensile Elongation ² (Break)	380	%	ASTM D638
Aging	Nominal Value	Unit	
Tensile strength retention rate ³ (136°C, 762.0 μm)	110	%	
Elongation retention rate ⁴ (136°C, 762.0 μm)	90	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-16.0	°C	ASTM D746
UL Temperature Rating	105	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.6E+15	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (3.18 mm)	29	%	ASTM D2863
Additional Information			

NOTE: Typical Properties of Molded Slab (0.075"); Not to be Construed as Specifications.

Extrusion	Nominal Value	Unit
Melt Temperature	177 - 188	°C

NOTE

1. Type 4, 510mm/min
2. Type 4, 510mm/min
3. 168 hr, UL Standard
4. 168 hr, UL Standard

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