

# Geon™ Vinyl Wire & Cable WEMB406

Flexible Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™Vinyl Wire & Cable WEMB406 is a flexible PVC product. It can be processed by extrusion coating and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Geon™Vinyl Wire & Cable WEMB406 applications include wire and cable and automotive industries. Features include:  
ROHS certification  
Flame Retardant

General Information			
Features	Flame retardancy		
Uses	Building wire insulation material		
	Wire and cable applications		
	Application in Automobile Field		
Wire Types	THHW		
	THW		
	TW		
Agency Ratings	UL QMTT2		
	UL VW-1		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	87		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	20.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	360	%	ASTM D638
Aging	Nominal Value	Unit	
Tensile strength retention rate <sup>3</sup> (136°C, 762.0 µm)	100	%	
Elongation retention rate <sup>4</sup> (136°C, 762.0 µm)	91	%	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-20.0	°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)	28	%	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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#### Recommended distributors for this material

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