

## PolyOne Geon™ Vinyl Wire & Cable WEMB410 Polyvinyl Chloride, Flexible (PVC, Flexible)

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Wire and Cable Grade

### Material Notes:

Typical Properties of Molded Slab (0.075); Not to be Construed as Specifications. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Geon-Vinyl-Wire-Cable-WEMB410-Polyvinyl-Chloride-Flexible-PVC-Flexible.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Wire-Cable-WEMB410-Polyvinyl-Chloride-Flexible-PVC-Flexible.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	91	91	15 sec; ASTM D2240
Hardness, Shore D	38	38	15 sec; ASTM D2240
Tensile Strength, Yield	20.7 MPa	3000 psi	Type IV, 510 mm/min; ASTM D638
Elongation at Break	300 %	300 %	Type IV, 510 mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	105 °C	221 °F	UL Temperature Rating
Brittleness Temperature	-22.0 °C	-7.60 °F	ASTM D746
Oxygen Index	31 % @Thickness 3.18 mm	31 % @Thickness 0.125 in	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.60e+15 ohm-cm	5.60e+15 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	177 - 188 °C	351 - 370 °F	

Descriptive Properties	Value	Comments
Agency Ratings	UL I Oil Rating	
	UL QMTT2	
	UL VW-1	

Features Descriptive Properties	Flame Retardant Value	Comments
Forms	Pellets	
Generic Material	PVC, Flexible	
Generic Name	Polyvinyl Chloride, Flexible (PVC, Flexible)	
Processing Method	Extrusion	
	Extrusion Coating	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Retention of Tensile Elongation	90%	136°C, 762.0 µm; 168 hr, UL Standard
Retention of Tensile Strength	110%	136°C, 762.0 µm; 168 hr, UL Standard
RoHS Compliance	RoHS Compliant	
Uses	Building Wire Insulation	
	Insulation	
	Wet Rated Insulation	
	Wire & Cable Applications	
Wire Types	THHN	
	THHW	
	THW	
	THW-2	
	THWN	
	THWN-2	
	TW	

**Contact Songhan Plastic Technology Co.,Ltd.**

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