

PolyOne Geon™ Vinyl Wire & Cable WEMB410U 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-WEMB410U-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
	Sunlight Resistant (720 hours)	
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	

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