

PolyOne Geon™ Vinyl Wire & Cable EMB405LB 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-EMB405LB-Polyvinyl-Chloride-Flexible-PVC-Flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	15 sec; ASTM D2240
Tensile Strength, Yield	21.4 MPa	3100 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	-16.0 °C	3.20 °F	ASTM D746
Oxygen Index	30 % @Thickness 3.18 mm	30 % @Thickness 0.125 in	ASTM D2863

Processing Properties	Metric	English	Comments
Melt Temperature	182 - 191 °C	360 - 376 °F	

Descriptive Properties	Value	Comments
Additive	Biocide	
Agency Ratings	UL QMTT2	
	UL VW-1	
Features	Flame Retardant	
Forms	Pellets	
Generic Material	PVC, Flexible	
Generic Name	Polyvinyl Chloride, Flexible (PVC, Flexible)	

Descriptive Properties Processing Method	Value Extrusion Coating	Comments
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Retention of Tensile Elongation	85%	136°C, 762.0 µm; 168 hr, UL Standard
Retention of Tensile Strength	99%	136°C, 762.0 µm; 168 hr, UL Standard
RoHS Compliance	RoHS Compliant	
Uses	Building Wire Insulation	
	Wire & Cable Applications	
Wire Types	THHN	
	THW	
	THWN	
	TW	

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