

PolyOne Geon™ Vinyl Wire & Cable W1200 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-W1200-Polyvinyl-Chloride-Flexible-PVC-Flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Deformation	25 % @Temperature 121 °C, Time 3600 sec	25 % @Temperature 250 °F, Time 1.00 hour	500 g; UL 1581

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	41	41	15 sec; ASTM D2240
	47	47	ASTM D2240
Tensile Strength, Yield	17.2 MPa	2490 psi	Type IV, 510 mm/min; ASTM D638
Elongation at Break	250 %	250 %	Type IV, 510 mm/min; ASTM D638
Tensile Modulus	0.0117 GPa	1.70 ksi	Type IV, 510 mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	75.0 °C	167 °F	UL Temperature Rating
	80.0 °C	176 °F	UL Temperature Rating
	90.0 °C	194 °F	UL Temperature Rating
Brittleness Temperature	-5.00 °C	23.0 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+12 ohm-cm	1.50e+12 ohm-cm	ASTM D257
Dissipation Factor	0.090 @Frequency 1000 Hz, Temperature 30.0 °C	0.090 @Frequency 1000 Hz, Temperature 86.0 °F	24 hr; ASTM D150

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	188 - 193 °C Metric	370 - 379 °F English	Comments
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Descriptive Properties	Value	Comments
Additive	Lead Stabilizer	
Agency Ratings	UL QMTT2	
Appearance	Black	
	Dark Grey	
Change in Ultimate Elongation	25%	ASTM D543; 60°C, 1440 hr, in ASTM #2 Oil; 0.075 in
Features	Flame Retardant	
	Sunlight Resistant (300 hours)	
Forms	Pellets	
Generic Material	PVC, Flexible	
Generic Name	Polyvinyl Chloride, Flexible (PVC, Flexible)	
Processing Method	Extrusion Coating	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Retention of Tensile Elongation	70%	113°C, 1.91 mm; 168 hr, UL Standard
	90%	100°C, 1.91 mm; 168 hr, UL Standard
Uses	Building Wire Insulation	
	Wire & Cable Applications	
Wire Types	AWM	
	THW	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China