

PolyOne Geon™ Vinyl Wire & Cable 1802-xx05FRD 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-1802-xx05FRD-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 A	90	90	15 sec; ASTM D2240
Tensile Strength, Yield	19.3 MPa	2800 psi	Type IV, 510 mm/min; ASTM D638
Elongation at Break	250 %	250 %	Type IV, 510 mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	90.0 °C	194 °F	UL Temperature Rating
Brittleness Temperature	-19.0 °C	-2.20 °F	ASTM D746
Oxygen Index	26 % @Thickness 1.91 mm	26 % @Thickness 0.0752 in	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.60e+12 ohm-cm	1.60e+12 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	174 - 179 °C	345 - 354 °F	

Descriptive Properties	Value	Comments
Additive	Lead Stabilizer	
Agency Ratings	UL QMTT2	
Features	Flame Retardant	
	Sunlight Resistant (720 hours)	

Forms Descriptive Properties	Pellets Value	Comments
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	90%	121°C, 1.91 mm; 168 hr, UL Standard
Retention of Tensile Strength	100%	121°C, 1.91 mm; 168 hr, UL Standard
Uses	Cable Jacketing	
	Wire & Cable Applications	
Wire Types	PLTC	

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