

PolyOne Geon™ Vinyl Flexible R8180K Polyvinyl Chloride, Flexible (PVC, Flexible)

Category : Polymer , Thermoplastic , Vinyl (PVC)

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-Flexible-R8180K-Polyvinyl-Chloride-Flexible-PVC-Flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	15 sec; ASTM D2240
Tensile Strength, Yield	17.9 MPa	2600 psi	Type IV, 510 mm/min; ASTM D638
Elongation at Break	340 %	340 %	Type IV, 510 mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-22.0 °C	-7.60 °F	ASTM D746
Oxygen Index	28 % @Thickness 1.91 mm	28 % @Thickness 0.0752 in	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.20e+14 ohm-cm	8.20e+14 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	165 - 175 °C	329 - 347 °F	

Descriptive Properties	Value	Comments
Additive	Lead Stabilizer	
Features	Flame Retardant	
Forms	Pellets	
Generic Material	PVC, Flexible	
Generic Name	Polyvinyl Chloride, Flexible (PVC, Flexible)	

Processing Method Descriptive Properties	Extrusion Coating Value	Comments
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Retention of Tensile Elongation	80%	121°C, 1.91 mm; 500 hr, UL Standard
Retention of Tensile Strength	110%	121°C, 1.91 mm; 500 hr, UL Standard
Uses	Building Wire Insulation	
	Wire & Cable Applications	
Wire Types	NMD90	

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