



# Geon™ Vinyl Wire & Cable WJCK512

## Flexible Polyvinyl Chloride

### Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Features	• Flame Retardant • Good UV Resistance
Uses	• Cable Jacketing • Wire & Cable Applications
Agency Ratings	• CSA C-22.2, No. 131
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Extrusion Coating

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.39	1.39	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup> (Yield)	2100 psi	14.5 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	350 %	350 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	75	75	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-50.8 °F	-46.0 °C	ASTM D746
UL Temperature Rating <sup>3</sup>	194 °F	90 °C	CSA
Aging	Typical Value (English)	Typical Value (SI)	
Retention of Tensile Elongation <sup>4</sup> 250°F (121°C), 35.0 mil (889.0 µm)	85 %	85 %	
Retention of Tensile Strength <sup>4</sup> 250°F (121°C), 35.0 mil (889.0 µm)	110 %	110 %	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Oxygen Index (0.125 in (3.18 mm))	25 %	25 %	ASTM D2863

#### Additional Information

NOTE: Typical Properties of Molded Slab (0.075"); Not to be Construed as Specifications.  
Provisional Product Information - Physical and Mechanical properties based on initial production.

### Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	320 to 338 °F	160 to 170 °C

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> Type IV, 20 in/min (510 mm/min)

<sup>3</sup> 90°C CSA Rated.

<sup>4</sup> 336 hr, UL Standard

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