



Geon™ Vinyl Wire & Cable WJCK435

Flexible Polyvinyl Chloride

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Uses	• Building Wire Jacketing • Wire & Cable Applications
Wire Types	• SER • SEU
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Extrusion Coating

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.31	1.31	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	2280 psi	15.7 MPa	ASTM D638
Tensile Elongation ² (Break)	400 %	400 %	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	-49.0 °F	-45.0 °C	ASTM D746
UL Temperature Rating ³	194 °F	90 °C	CSA
Aging	Typical Value (English)	Typical Value (SI)	
Retention of Tensile Elongation ⁴ 250°F (121°C), 75.0 mil (1.91 mm)	80 %	80 %	
Retention of Tensile Strength ⁴ 250°F (121°C), 75.0 mil (1.91 mm)	110 %	110 %	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Oxygen Index (0.125 in (3.18 mm))	22 %	22 %	ASTM D2863

Processing Information

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

Notes

¹ Typical values are not to be construed as specifications.

² Type IV, 20 in/min (510 mm/min)

³ 90°C CSA Rated

⁴ 336 hr, UL Standard

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