



Geon™ Vinyl Wire & Cable WY594B

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Wire & Cable Applications		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.33	1.33	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	1900 psi	13.1 MPa	ASTM D638
Tensile Elongation ² (Break)	300 %	300 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	82	82	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-18.5 °F	-28.1 °C	ASTM D746
Aging	Typical Value (English)	Typical Value (SI)	
Retention of Tensile Elongation ³ 277°F (136°C), 75.0 mil (1.91 mm)	89 %	89 %	
Retention of Tensile Strength ³ 277°F (136°C), 75.0 mil (1.91 mm)	85 %	85 %	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Oxygen Index (0.0750 in (1.91 mm))	24 %	24 %	ASTM D2863
Additional Information			

NOTE: Typical Properties of Molded Slab (0.075"); Not to be Construed as Specifications.

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	330 to 348 °F	166 to 176 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type IV, 20 in/min (510 mm/min)

³ 168 hr, UL Standard

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