



# Geon™ CPVC EC501

## Chlorinated Polyvinyl Chloride

### Key Characteristics

#### Product Description

Geon EC501 CPVC is an extrusion grade rigid compound. It is designed for applications where enhanced resistance at elevated temperatures is needed. EC501 demonstrates ease of processing with excellent thermal stability.

#### General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Automotive Interior Parts • Profiles		
Forms	• Powder		
Processing Method	• Extrusion		

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.52	1.52	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	380000 psi	2620 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	7500 psi	51.7 MPa	ASTM D638
Flexural Modulus	395000 psi	2720 MPa	ASTM D790
Flexural Strength	13500 psi	93.1 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	2.5 ft·lb/in	130 J/m	ASTM D256A
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	84	84	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	194 °F	89.9 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	219 °F	104 °C	ASTM D648

### Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	375 to 395 °F	191 to 202 °C

#### Notes

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

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)