



Geon™ CPVC EC520

Chlorinated Polyvinyl Chloride

Key Characteristics

Product Description

Geon CPVC EC520 is an extrusion grade rigid compound. It is designed for applications where enhanced resistance at elevated temperatures in combination with superior physical properties is needed. EC520 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	• Profiles	• Siding Substrate	
Forms	• Powder		
Processing Method	• Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.51	1.51	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	370000 psi	2550 MPa	ASTM D638
Tensile Strength ² (Yield)	7500 psi	51.7 MPa	ASTM D638
Flexural Modulus	390000 psi	2690 MPa	ASTM D790
Flexural Strength	13000 psi	89.6 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	5.0 ft-lb/in	270 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), Annealed, 0.125 in (3.18 mm)	216 °F	102 °C	ASTM D648

Processing Information

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

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)