



Geon™ CPVC EC050

Chlorinated Polyvinyl Chloride

Key Characteristics

Product Description

The Geon EC050 CPVC is an extrusion compound for Industrial Pipe applications where enhanced resistance at elevated temperatures is needed. Geon EC050 demonstrates ease of processing and excellent thermal stability.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Industrial Applications	• Piping	
Forms	• Powder		
Processing Method	• Pipe Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.51	1.51	ASTM D792
PVC Cell Classification	23447	23447	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	381000 psi	2630 MPa	ASTM D638
Tensile Strength (Yield, 73°F (23°C))	7760 psi	53.5 MPa	ASTM D638
Flexural Modulus	396000 psi	2730 MPa	ASTM D790
Flexural Strength (Yield)	13800 psi	95.1 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)	2.1 ft·lb/in	110 J/m	ASTM D256
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Rockwell Hardness (R-Scale)	117	117	ASTM D785
Durometer Hardness (Shore D)	80	80	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed	230 °F	110 °C	ASTM D648

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	388 to 410 °F	198 to 210 °C

Notes

¹ Typical values are not to be construed as specifications.