

PolyOne Geon™ CPVC EC050 Polyvinyl Chloride, Chlorinated (CPVC)

Category : Polymer , Thermoplastic , Vinyl (PVC) , Chlorinated PVC (CPVC)

Material Notes:

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. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-CPVC-EC050-Polyvinyl-Chloride-Chlorinated-CPVC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Hardness, Shore D	80	80	ASTM D2240
Tensile Strength, Yield	53.5 MPa @Temperature 23.0 °C	7760 psi @Temperature 73.4 °F	ASTM D638
Tensile Modulus	2.63 GPa @Temperature 23.0 °C	381 ksi @Temperature 73.4 °F	ASTM D638
Flexural Yield Strength	95.1 MPa	13800 psi	ASTM D790
Flexural Modulus	2.73 GPa	396 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	2.06 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	Annealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	198 - 210 °C	388 - 410 °F	

Descriptive Properties	Value	Comments
Forms	Powder	
Generic Material	CPVC	

Generic Name Descriptive Properties	Polyvinyl Chloride, Chlorinated (CPVC) Value	Comments
Processing Method	Pipe Extrusion	
PVC Cell Classification	23447	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Industrial Applications	
	Piping	

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