

# Geon™ CPVC EE105

Chlorinated Polyvinyl Chloride

PolyOne Corporation

## Message:

Geon EE105 CPVC is an extrusion grade rigid compound ideally suited for a variety of applications. EE105 offers excellent electrical properties, chemical resistance and is designed for applications where enhanced resistance at elevated temperatures is needed. EE105 demonstrates ease of processing with excellent thermal stability. All colors of EE105 are UL certified and are made with virgin materials.

General Information			
Uses	Profiles		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec, 3.18 mm)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup> (23°C, 3.18 mm, Compression Molded)	2240	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield, 23°C, 3.18 mm, Compression Molded)	51.7	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, 23°C, 3.18 mm)	24	%	ASTM D638
Flexural Modulus (23°C, 3.18 mm)	2410	MPa	ASTM D790
Flexural Strength (23°C, 3.18 mm)	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Drop Impact Resistance <sup>4</sup> (23°C)	66.7	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed, 3.18 mm	111	°C	
1.8 MPa, Annealed, 3.18 mm	105	°C	
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
RTI Elec (1.02 to 3.05 mm)	105	°C	UL 746
RTI Imp (1.02 to 3.05 mm)	105	°C	UL 746
RTI Str (1.02 to 3.05 mm)	105	°C	UL 746
Electrical	Nominal Value		Test Method
High Amp Arc Ignition (HAI) (3.05 mm)	0.00		UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
> 1.02 mm	V-0		
> 1.52 mm	5VA		
Extrusion	Nominal Value	Unit	

Melt Temperature	191 to 199	°C
NOTE		
1.	51 mm/min	
2.	51 mm/min	
3.	51 mm/min	
4.	Procedure A, C.125	

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