



# Geon™ Vinyl Rigid Extrusion L0148

## Rigid Polyvinyl Chloride

### Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• Low Smoke Emission
Uses	• Profiles
Agency Ratings	• ASTM E 84
Forms	• Pellets
Processing Method	• Extrusion

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.46	1.46	ASTM D792
PVC Cell Classification	13354	13354	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	412000 psi	2840 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	6250 psi	43.1 MPa	ASTM D638
Flexural Modulus	406000 psi	2800 MPa	ASTM D790
Flexural Strength	11300 psi	78.0 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
Across Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	3.0 ft·lb/in	160 J/m	
Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	2.8 ft·lb/in	150 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) <sup>3</sup>	1.35 in·lb/mil	60.1 J/cm	
73°F (23°C) <sup>4</sup>	2.29 in·lb/mil	102 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	84	84	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	162 °F	72.2 °C	
CLTE - Flow	3.7E-5 in/in/°F	6.7E-5 cm/cm/°C	ASTM D696
Additional Information	Typical Value (English)	Typical Value (SI)	
Ease of Sizing	Good	Good	
Note: Finished part testing is required for ASTM E-84 certification.			
Note: The Cell Classification was determined using the notched Izod test with injection molded samples.			

### Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	360 to 380 °F	182 to 193 °C

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**Notes**

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

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

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- <sup>3</sup> Procedure A, C.125 Dart

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- <sup>4</sup> Procedure B, C.125 Dart

**CONTACT INFORMATION**

**Americas**

United States - Avon Lake  
+1 440 930 1000

United States - McHenry  
+1 815 385 8500

**Asia**

China - Guangzhou  
+86 20 8732 7260

China - Shenzhen  
+86 755 2969 2888

China - Suzhou  
+86 512 6823 24 38

China - Suzhou  
+86 512 6265 2600

Hong Kong -  
+852 2690 5332

Taiwan - Yonghe City,  
+886 9396 99740, +886 2929 1849

**Europe**

Germany - Gaggenau  
+49 7225 6802 0

Spain - Barbastro (Huesca)  
+34 974 310 314



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[www.polyone.com](http://www.polyone.com)

**PolyOne Americas**

33587 Walker Road  
Avon Lake, Ohio 44012  
United States  
+1 440 930 1000  
+1 866 POLYONE

**PolyOne Asia**

No. 88 Guoshoujing Road  
Z.J Hi-tech Park, Pudong  
Shanghai, 201203, China  
+86 21 5080 1188

**PolyOne Europe**

6 Giällewee  
+352 269 050 35

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