



# Geon™ Vinyl Rigid Extrusion 87345

## Rigid Polyvinyl Chloride

### Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• Chemical Resistant
Uses	• Piping
Agency Ratings	• NSF STD-61 <sup>1</sup>
Forms	• Pellets
Processing Method	• Extrusion

### Technical Properties<sup>2</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.40	1.40	ASTM D792
PVC Cell Classification	13454	13454	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>3</sup>	433000 psi	2990 MPa	ASTM D638
Tensile Strength <sup>3</sup> (Yield)	7100 psi	49.0 MPa	ASTM D638
Flexural Modulus	462000 psi	3190 MPa	ASTM D790
Flexural Strength	14300 psi	98.6 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.5 ft·lb/in	80 J/m	
Across Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	1.2 ft·lb/in	64 J/m	
Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	1.1 ft·lb/in	59 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) <sup>4</sup>	1.56 in·lb/mil	69.4 J/cm	
73°F (23°C) <sup>5</sup>	4.47 in·lb/mil	199 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	80	80	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)	168 °F	75.6 °C	
CLTE - Flow	3.4E-5 in/in/°F	6.1E-5 cm/cm/°C	ASTM D696
Additional Information	Typical Value (English)	Typical Value (SI)	
Ease of Sizing	Good	Good	

### Processing Information

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

**Notes**

<sup>1</sup> Natural 0000  
White 1000  
White 1270

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<sup>2</sup> Typical values are not to be construed as specifications.

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<sup>3</sup> Type I, 0.20 in/min (5.1 mm/min)

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<sup>4</sup> Procedure A, C.125 Dart

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<sup>5</sup> Procedure B, C.125 Dart



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