



Geon™ Vinyl Fittings 87322

Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active ¹		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Impact Resistance • Medium Flow		
Uses	• Construction Applications		
Agency Ratings	• NSF 14	• NSF 61	• NSF Type II ²
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ³

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.33	1.33	ASTM D792
Spiral Flow	31.0 in	78.7 cm	
Molding Shrinkage - Flow	2.0E-3 to 5.0E-3 in/in	0.20 to 0.50 %	ASTM D955
PVC Cell Classification	16354	16354	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ⁴	400000 psi	2760 MPa	ASTM D638
Tensile Strength ⁴ (Yield)	6600 psi	45.5 MPa	ASTM D638
Tensile Elongation ⁵ (Break)	110 %	110 %	ASTM D638
Flexural Modulus	420000 psi	2900 MPa	ASTM D790
Flexural Strength	12000 psi	82.7 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
0°F (-18°C), 0.125 in (3.18 mm), Injection Molded	1.6 ft-lb/in	85 J/m	
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	20 ft-lb/in	1100 J/m	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	83	83	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	162 °F	72.2 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.250 in (6.35 mm)	172 °F	77.8 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	V-0	V-0	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	390 to 410 °F	199 to 210 °C

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Notes

- ¹ RoHS compliant.

- ² NSF Agency ratings are based on tested and certified colors. Please contact Polyone technical for further information.

- ³ Typical values are not to be construed as specifications.

- ⁴ Type I, 2.0 in/min (51 mm/min)

- ⁵ Type I, 0.20 in/min (5.1 mm/min)

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