



Geon™ Vinyl Fittings M1030

Rigid Polyvinyl Chloride

Key Characteristics

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

Technical Properties ³

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.41	1.41	ASTM D792
Spiral Flow	28.0 in	71.1 cm	
Molding Shrinkage - Flow	2.0E-3 to 5.0E-3 in/in	0.20 to 0.50 %	ASTM D955
PVC Cell Classification	12454	12454	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ⁴	440000 psi	3030 MPa	ASTM D638
Tensile Strength ⁴ (Yield)	7600 psi	52.4 MPa	ASTM D638
Flexural Modulus	440000 psi	3030 MPa	ASTM D790
Flexural Strength	12700 psi	87.6 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	0.82 ft·lb/in	44 J/m	ASTM D256A
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	74	74	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	158 °F	70.0 °C	ASTM D648

Processing Information

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

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, 0.20 in/min (5.1 mm/min)

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