



Geon™ Vinyl Flexible A75M1 Trans 9000

Flexible Polyvinyl Chloride

Key Characteristics

Product Description	
This compound is certified for fuel hose applications(R1 Type B Class 1)under SAE J 1527 requirements.	
General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• High Gloss • Low to No Migration
Appearance	• Clear/Transparent
Forms	• Pellets
Processing Method	• Extrusion • Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.25	1.25	ASTM D792
Molding Shrinkage - Flow	0.019 to 0.023 in/in	1.9 to 2.3 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	1000 psi	6.89 MPa	ASTM D638
Tensile Strength ² (Break)	2100 psi	14.5 MPa	ASTM D638
Tensile Elongation ² (Break)	410 %	410 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	370 lbf/in	64.8 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	25 %	25 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	100000 psi	689 MPa	
-7°F (-22°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	75	75	
Shore A, 15 sec	70	70	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-15.0 °F	-26.1 °C	ASTM D746
Optical	Typical Value (English)	Typical Value (SI)	Test Method
Transmittance ⁴ (75.0 mil (1910 μm))	82.0 %	82.0 %	ASTM D1003
Haze (75.0 mil (1910 μm))	4.0 %	4.0 %	ASTM D1003

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	380 to 400 °F	193 to 204 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	350 to 360 °F	177 to 182 °C

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Notes

- ¹ Typical values are not to be construed as specifications.

- ² 20 in/min (510 mm/min)

- ³ Die C, 20 in/min (510 mm/min)

- ⁴ CIE Illuminant C

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