



# Geon™ Vinyl Flexible 90046

## Flexible Polyvinyl Chloride

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Gloss		
Uses	• Automotive Applications	• Automotive Exterior Trim	• Outdoor Applications
Automotive Specifications	• GM GMP.PVC.006		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.29	1.29	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup> (Break)	3500 psi	24.1 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	270 %	270 %	ASTM D638
Tear Resistance <sup>3</sup>	610 lbf/in	107.5 kN/m	ASTM D1004
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	58	58	ASTM D2240
Additional Information	Typical Value (English)	Typical Value (SI)	Test Method
Fungal Resistance	Pass	Pass	ASTM G21
Low Temperature Flexibility <sup>4</sup> -20°F (-29°C), 20.0 mil (508.0 µm)	Pass	Pass	
Volatile Loss <sup>5</sup> 221°F (105°C), 75.0 mil (1.91 mm)	0.33 %	0.33 %	ASTM D1203B
Xenon Weatherometer <sup>6</sup> Note: Automotive OEM approval(s).	Pass	Pass	SAE J1960

### Notes

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

<sup>2</sup> Type IV, 20 in/min (510 mm/min)

<sup>3</sup> Die C, 2 in/min

<sup>4</sup> 4 hr, 12 mm

<sup>5</sup> Method A

<sup>6</sup> Exterior, 2500 kJ/m<sup>2</sup>, Natural, dE\* < 3.0

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