



Geon™ Vinyl Flexible 90450

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Low Gloss		
Uses	• Automotive Applications • Automotive Interior Trim		
Automotive Specifications	• FORD WSK-M4D871-A1		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.28	1.28	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Break)	1710 psi	11.8 MPa	ASTM D638
Tensile Elongation ² (Break)	400 %	400 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	233 lbf/in	40.8 kN/m	ASTM D624
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	57	57	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Cold Flexibility ⁴ -20°F (-29°C), 75.0 mil (1.91 mm)	Pass	Pass	GM 9503P
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Automotive Burn Test	0 in/min	0 mm/min	FMVSS 302
Fogging ⁵	86 %	86 %	SAE J1756
Additional Information	Typical Value (English)	Typical Value (SI)	Test Method
Xenon Weatherometer ⁶ Note: Automotive OEM approval(s).	Pass	Pass	SAE J1960

Notes

¹ Typical values are not to be construed as specifications.

² Type IV, 20 in/min (510 mm/min)

³ Die C, 20 in/min (510 mm/min)

⁴ 25 mm, 4 hr

⁵ 3 hrs, 212°F(100°C), 70°F(21°C), after 1 hour

⁶ Interior, 1240 kJ/m², All Colors, dE* < 3.0

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