



Geon™ Vinyl Flexible 90453

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	
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.33	1.33	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Break)	2320 psi	16.0 MPa	ASTM D638
Tensile Elongation ² (Break)	340 %	340 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	430 lbf/in	75.3 kN/m	ASTM D624
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	82	82	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	17.6 °F	-8.00 °C	ASTM D746
Cold Flexibility ⁴			GM 9503P
-20°F (-29°C), 75.0 mil (1.91 mm)	Pass	Pass	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Fogging ⁵	87 %	87 %	SAE J1756

Additional Information

Note: Automotive OEM approval(s).

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 6 hrs, 203°F(95°C), 100°F(38°C), after 16 hours

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