



Geon™ Vinyl Flexible 90212

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Medium Gloss		
Uses	• Automotive Applications	• Outdoor Applications	
Forms	• Pellets		
Processing Method	• Encapsulating	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.37	1.37	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Break)	1800 psi	12.4 MPa	ASTM D638
Tensile Elongation ² (Break)	210 %	210 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	390 lbf/in	68.3 kN/m	ASTM D624
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	83	83	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-13.0 °F	-25.0 °C	ASTM D746
Optical	Typical Value (English)	Typical Value (SI)	Test Method
Gardner Gloss (60°)	20 to 40	20 to 40	ASTM D523
Additional Information	Typical Value (English)	Typical Value (SI)	Test Method
Volatile Loss ⁴ 221°F (105°C), 0.13 in (3.18 mm)	1.4 %	1.4 %	ASTM D1203B
Xenon Weatherometer ⁵	< 0.30 %	< 0.30 %	SAE J1960

Provisional Product Information - Physical and Mechanical properties based on initial production.

Notes

¹ Typical values are not to be construed as specifications.

² Type IV, 20 in/min (510 mm/min)

³ Die C, 2.0 in/min (51 mm/min)

⁴ Method A

⁵ Exterior, 2500 kJ/m², Black, dE* < 3.0

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