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
Density / 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