Geon™ Vinyl Flexible XV3683

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Abrasion Resistant		
Uses	• Gaskets • Hose	• Profiles • Seals	• Tubing
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	• Profile Extrusion

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.38	1.38	ASTM D792
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2] (100% Strain)	950 psi	6.55 MPa	ASTM D638
Tensile Strength [2] (Break)	1790 psi	12.3 MPa	ASTM D638
Tensile Elongation [2] (Break)	400 %	400 %	ASTM D638
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tear Strength [3]	625 lbf/in	109 kN/m	ASTM D624
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 15 sec)	77	77	ASTM D2240
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Brittleness Temperature	-29.0 °F	-33.9 °C	ASTM D746
Additional Information	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Volatile Loss [4]			ASTM D1203B
221°F (105°C), 75.0 mil (1.91 mm)	0.20 %	0.20 %	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	380 to 390 °F	193 to 199 °C
Extrusion	**Typical Value (English)**	**Typical Value (SI)**
Melt Temperature	350 to 360 °F	177 to 182 °C

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] Method A