



# Geon™ Vinyl Flexible K85 Natural & Black

## Flexible Polyvinyl Chloride

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Biocide • UV Stabilizer		
Features	• UV Absorbing		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.24	1.24	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup> (100% Strain)	900 psi	6.21 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	2100 psi	14.5 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	380 %	380 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength <sup>3</sup>	300 lbf/in	52.5 kN/m	ASTM D624
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	75	75	
Shore A, 15 sec	70	70	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-47.0 °F	-43.9 °C	ASTM D746

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	365 to 385 °F	185 to 196 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	345 to 355 °F	174 to 179 °C

### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> 20 in/min (510 mm/min)

<sup>3</sup> Die C, 20 in/min (510 mm/min)

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