



Geon™ Vinyl Flexible A87F3

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Antistatic	• Flame Retardant	
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.26	1.26	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	1750 psi	12.1 MPa	ASTM D638
Tensile Strength ² (Break)	3040 psi	21.0 MPa	ASTM D638
Tensile Elongation ² (Break)	380 %	380 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	490 lbf/in	85.8 kN/m	ASTM D624
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	87	87	
Shore A, 15 sec	81	81	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	9.00 °F	-12.8 °C	ASTM D746
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.0433 in (1.10 mm), Transparent, Tested passing V-0 but not registered by UL.	V-0	V-0	
0.0591 in (1.50 mm), Transparent, Tested passing V-0 but, not registered by UL.	V-0	V-0	
0.0984 in (2.50 mm), Transparent, Tested passing V-0 but not registered by UL.	V-0	V-0	
Oxygen Index (0.118 in (3.00 mm))	30 %	30 %	ASTM D2863

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	370 to 390 °F	188 to 199 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	350 to 360 °F	177 to 182 °C

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Notes

¹ Typical values are not to be construed as specifications.

² 20 in/min (510 mm/min)

³ Die C, 20 in/min (510 mm/min)

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