

Geon™ Vinyl Flexible C8000

Flexible Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Flexible C8000 is a Flexible Polyvinyl Chloride product. It can be processed by coextrusion, extrusion, or injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Geon™ Vinyl Flexible C8000 include plumbing/piping/potable water and sealing applications. Primary characteristic: flame rated.

General Information	
UL YellowCard	E41877-234233
Features	General Purpose
	Medium Gloss
Uses	General Purpose
	Seals
	Weatherstripping
Agency Ratings	NSF 51 3
Forms	Pellets
Processing Method	Coextrusion
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.7 to 2.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	80		
Shore A, 15 sec	72		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Break	11.7	MPa	
100% Strain	5.86	MPa	
Tensile Elongation ² (Break)	380	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³	43.8	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	23	%	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	207	MPa	
-39°C	310	MPa	

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-37.8	°C	ASTM D746
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	193 to 204	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	174 to 179	°C	
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	Die C, 510 mm/min		

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