

PolyOne Geon™ Vinyl Flexible C9000 Polyvinyl Chloride, Flexible (PVC, Flexible)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Flexible-C9000-Polyvinyl-Chloride-Flexible-PVC-Flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.014 - 0.020 cm/cm	0.014 - 0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	84	84	15 sec; ASTM D2240
	90	90	ASTM D2240
Tensile Strength at Break	14.8 MPa	2150 psi	510 mm/min; ASTM D638
Tensile Strength	8.96 MPa	1300 psi	510 mm/min; ASTM D638
	@Strain 100 %	@Strain 100 %	
Elongation at Break	350 %	350 %	510 mm/min; ASTM D638
Tear Strength	64.8 kN/m	370 pli	Die C, 510 mm/min; ASTM D624
Compression Set	32 %	32 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
Clash Berg Modulus	0.579 GPa	84.0 ksi	ASTM D1043
	0.310 GPa	45.0 ksi	ASTM D1043
	@Temperature -26.0 °C	@Temperature -14.8 °F	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-27.8 °C	-18.0 °F	ASTM D746
Flammability, UL94	HB	HB	UL 94

Processing Properties	Metric	English	Comments
Melt Temperature	177 - 182 °C	351 - 360 °F	
	193 - 204 °C	379 - 399 °F	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value	Comments	
Agency Ratings	NSF 51	NATURAL, BLACK 2999, WHITE 1320. Max. Temper. of use = 100 degrees F.	
Features	General Purpose		
	Medium Gloss		
Forms	Pellets		
Generic Material	PVC, Flexible		
Generic Name	Polyvinyl Chloride, Flexible (PVC, Flexible)		
Processing Method	Coextrusion		
	Extrusion		
	Injection Molding		
Regional Availability	Africa & Middle East		
	Asia Pacific		
	Europe		
	North America		
	South America		
Uses	General Purpose		
	Lawn and Garden Equipment		
	Wheels		

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