

PolyOne Geon™ Vinyl Flexible A7000 Polyvinyl Chloride, Flexible (PVC, Flexible)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Interior compound used primarily in transparent applications. This product is registered under UL 94 HB specifications @ 3.0 and 1.5 mm. thickness and all colors. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Flexible-A7000-Polyvinyl-Chloride-Flexible-PVC-Flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.019 - 0.023 cm/cm	0.019 - 0.023 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	59	59	15 sec; ASTM D2240
	70	70	ASTM D2240
Tensile Strength at Break	11.0 MPa	1600 psi	510 mm/min; ASTM D638
Tensile Strength	4.55 MPa	660 psi	510 mm/min; ASTM D638
	@Strain 100 %	@Strain 100 %	
Elongation at Break	450 %	450 %	510 mm/min; ASTM D638
Tear Strength	40.3 kN/m	230 pli	Die C, 510 mm/min; ASTM D624
Compression Set	18 %	18 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
Clash Berg Modulus	0.0372 GPa	5.40 ksi	ASTM D1043
	0.310 GPa	45.0 ksi	ASTM D1043
	@Temperature -52.0 °C	@Temperature -61.6 °F	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-51.1 °C	-60.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	ASTM D1003
	@Thickness 1.91 mm	@Thickness 0.0750 in	

Optical Properties	Metric	English	Comments
	@Thickness 1.91 mm	@Thickness 0.0750 in	

Processing Properties	Metric	English	Comments
Melt Temperature	171 - 177 °C	340 - 351 °F	
	193 - 204 °C	379 - 399 °F	

Descriptive Properties	Value	Comments
Agency Ratings	NSF 51	Trans 9423. Max. Temp. of use = 100 deg. F.
	UL 94	HB, ALL COLORS, (1.5 and 3.0 mm).
Appearance	Clear/Transparent	
Features	General Purpose	
	High Gloss	
Forms	Pellets	
Generic Material	PVC, Flexible	
Generic Name	Polyvinyl Chloride, Flexible (PVC, Flexible)	
Processing Method	Extrusion	
	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	General Purpose	

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