

PolyOne Geon™ Vinyl Flexible A8500 Polyvinyl Chloride, Flexible (PVC, Flexible)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Recommended for interior applications. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Flexible-A8500-Polyvinyl-Chloride-Flexible-PVC-Flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.015 - 0.019 cm/cm	0.015 - 0.019 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	15 sec; ASTM D2240
	85	85	ASTM D2240
Tensile Strength at Break	16.5 MPa	2390 psi	510 mm/min; ASTM D638
Tensile Strength	9.65 MPa	1400 psi	510 mm/min; ASTM D638
	@Strain 100 %	@Strain 100 %	
Elongation at Break	350 %	350 %	510 mm/min; ASTM D638
Tear Strength	77.1 kN/m	440 pli	Die C, 510 mm/min; ASTM D624
Compression Set	45 %	45 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
Clash Berg Modulus	0.310 GPa	45.0 ksi	ASTM D1043
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-32.8 °C	-27.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	5.0 %	5.0 %	ASTM D1003
	@Thickness 1.91 mm	@Thickness 0.0750 in	
Transmission, Visible	80 %	80 %	ASTM D1003
	@Thickness 1.91 mm	@Thickness 0.0750 in	

Processing Properties	Metric	English	Comments
Melt Temperature	174 - 179 °C	345 - 354 °F	
	193 - 204 °C	379 - 399 °F	

Descriptive Properties	Value	Comments
Agency Ratings	NSF 51	TRANS 9400. Max. Temp. of use = 100 degrees F.
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	Flooring	
	General Purpose	
	Hose	
	Tubing	

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