

PolyOne Geon™ Vinyl Flexible A6500 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-A6500-Polyvinyl-Chloride-Flexible-PVC-Flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.023 - 0.027 cm/cm	0.023 - 0.027 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	58	58	15 sec; ASTM D2240
	65	65	ASTM D2240
Tensile Strength at Break	9.65 MPa	1400 psi	510 mm/min; ASTM D638
Tensile Strength	3.93 MPa	570 psi	510 mm/min; ASTM D638
	@Strain 100 %	@Strain 100 %	
Elongation at Break	440 %	440 %	510 mm/min; ASTM D638
Tear Strength	29.8 kN/m	170 pli	Die C, 510 mm/min; ASTM D624
Compression Set	30 %	30 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
Clash Berg Modulus	0.0379 GPa	5.50 ksi	ASTM D1043
	0.310 GPa	45.0 ksi	ASTM D1043
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-46.7 °C	-52.1 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	3.0 %	3.0 %	ASTM D1003
	@Thickness 1.91 mm	@Thickness 0.0750 in	
	85 %	85 %	

Optical Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Melt Temperature	168 - 174 °C	334 - 345 °F	
	188 - 199 °C	370 - 390 °F	

Descriptive Properties	Value	Comments
Appearance	Clear/Transparent	
Features	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	Hose	
	Tubing	

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