

PolyOne Geon™ Vinyl Flexible B8500 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-B8500-Polyvinyl-Chloride-Flexible-PVC-Flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	79	79	15 sec; ASTM D2240
	85	85	ASTM D2240
Tensile Strength at Break	16.2 MPa	2350 psi	510 mm/min; ASTM D638
Tensile Strength	8.27 MPa	1200 psi	510 mm/min; ASTM D638
	@Strain 100 %	@Strain 100 %	
Elongation at Break	400 %	400 %	510 mm/min; ASTM D638
Tear Strength	70.1 kN/m	400 pli	Die C, 510 mm/min; ASTM D624
Compression Set	28 %	28 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
Clash Berg Modulus	0.331 GPa	48.0 ksi	ASTM D1043
	0.310 GPa	45.0 ksi	ASTM D1043
	@Temperature -32.0 °C	@Temperature -25.6 °F	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-36.1 °C	-33.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Melt Temperature	174 - 179 °C	345 - 354 °F	
	188 - 199 °C	370 - 390 °F	

Descriptive Properties	Value	Comments
Features	General Purpose	
	Medium 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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