

PolyOne Geon™ Vinyl Flexible A5D00 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-A5D00-Polyvinyl-Chloride-Flexible-PVC-Flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.012 - 0.016 cm/cm	0.012 - 0.016 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	42	42	15 sec; ASTM D2240
	55	55	ASTM D2240
Tensile Strength at Break	20.7 MPa	3000 psi	510 mm/min; ASTM D638
Tensile Strength	15.2 MPa	2200 psi	510 mm/min; ASTM D638
	@Strain 100 %	@Strain 100 %	
Elongation at Break	340 %	340 %	510 mm/min; ASTM D638
Tear Strength	118 kN/m	673 pli	Die C, 510 mm/min; ASTM D624
Compression Set	62 %	62 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
Clash Berg Modulus	0.800 GPa	116 ksi	ASTM D1043
	0.310 GPa	45.0 ksi	ASTM D1043
	@Temperature -11.0 °C	@Temperature 12.2 °F	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-21.1 °C	-5.98 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	ASTM D1003
	@Thickness 1.91 mm	@Thickness 0.0750 in	
	75 %	75 %	

Optical Properties	Metric	English	Comments
Transmission Visible	@ Thickness 1.91 mm	@ Thickness 0.0750 in	ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	179 - 185 °C	354 - 365 °F	
	193 - 204 °C	379 - 399 °F	

Descriptive Properties	Value	Comments
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	Film	
	General Purpose	
	Sheet	

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