

PolyOne Geon™ Vinyl Flexible A90U2 Polyvinyl Chloride, Flexible (PVC, Flexible)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

GENERAL PURPOSE CLEAR PVC COMPOUND WITH LOW LEVEL OF U.V. INHIBITOR, to be used only in interior applications. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Flexible-A90U2-Polyvinyl-Chloride-Flexible-PVC-Flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.013 - 0.017 cm/cm	0.013 - 0.017 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	15 sec; ASTM D2240
	91	91	ASTM D2240
Tensile Strength at Break	18.6 MPa	2700 psi	510 mm/min; ASTM D638
Tensile Strength	10.9 MPa	1580 psi	510 mm/min; ASTM D638
	@Strain 100 %	@Strain 100 %	
Elongation at Break	390 %	390 %	510 mm/min; ASTM D638
Tear Strength	85.8 kN/m	490 pli	Die C, 510 mm/min; ASTM D624
Compression Set	37 %	37 %	ASTM D395
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	
Clash Berg Modulus	0.545 GPa	79.0 ksi	ASTM D1043
	0.310 GPa	45.0 ksi	ASTM D1043
	@Temperature -24.0 °C	@Temperature -11.2 °F	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-33.9 °C	-29.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	5.0 %	5.0 %	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	177 - 182 °C	351 - 360 °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	General Purpose	

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