

## PolyOne Geon™ 180 Series 180X7 Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

### Material Notes:

Geon® 180X7 is low molecular weight homopolymer resin that provides good chemical foam characteristics with excellent overblow resistance. The modified rheology of Geon® 180X7 provides increased viscosity and yield. Geon® 180X7 is recommended for applications where high Brookfield Viscosity and yield are required such as highly plasticized low density chemically blown foams, highly plasticized formulations, and weather stripping. Note: The value set forth represent typical values and PolyOne Corporation, therefore, makes no representation that the material in any particular shipment will conform to the listed properties. Packaging: This resin is shipped in multi-wall paper bags, net weight 50 lbs, 2500 lbs per pallet. Information shown on the package includes commercial identification number, lot and weight. Geon® ALTC and ASTM D638 (formulation): 100phr Geon® 180X7, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 390 (formulation): 100phr Geon® 180X7, and 60phr DOP Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Geon-180-Series-180X7-Polyvinyl-Chloride-Homopolymer-PVC-Homopolymer.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-180-Series-180X7-Polyvinyl-Chloride-Homopolymer-PVC-Homopolymer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Bulk Density	0.400 g/cc	0.0145 lb/in <sup>3</sup>	
Fineness	4.5	4.5	Hegman, North Fineness; Geon® 390
Relative Viscosity	2.2 cP	2.2 cP	Correlation, Cyclohexanone 1%; Internal Method
Brookfield Viscosity	10.6 cP	10.6 cP	Initial Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	11.8 cP	11.8 cP	One Day Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	19.8 cP	19.8 cP	Initial Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
Viscosity Measurement	23.3 cP	23.3 cP	One Day Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	0.90	0.90	Inherent; ASTM D1243-60-A
Melt Flow	132 g/10 min	132 g/10 min	Severs Efflux; Geon® ALTC 23 (with provided formulation); Internal Method
	@Pressure 0.655 MPa	@Pressure 95.0 psi	

Mechanical Properties	Metric	English	Comments
	18.4 MPa	2670 psi	Optimum; With provided formulation;

Tensile Strength Mechanical Properties	Metric	English	ASTM D638 Comments
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Optical Properties	Metric	English	Comments
Gloss	91 %	91 %	60 Degree Fused 5 mins @ 350F Geon® ALTC 65 (with provided formulation); Internal Method
Transmission, Visible	85 %	85 %	Geon® ALTC 66 (with provided formulation); Internal Method

Processing Properties	Metric	English	Comments
Moisture Content	0.060 %	0.060 %	Karl Fisher Geon® STP 683; Internal Method

Descriptive Properties	Value	Comments
Features	Foamable	
	High Viscosity	
	Low Molecular Weight	
	Plasticized	
Forms	Powder	Fine, White Powder
Gel Temperature	72 °C	Internal Method; Geon® ALTC 29 (with provided formulation)
Generic Material	PVC Homopolymer	
Generic Name	Polyvinyl Chloride Homopolymer (PVC Homopolymer)	
K-Value	65	Internal Method; Correlation, 0.5gm/100ml
Methanol Extractables	3.5%	Internal Method; Geon® STP 894
Polymerization Process	Microsuspension	
Processing Method	Plastisol	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Residual Vinyl Chloride Monomer	< 9 ppm	Internal Method; Geon® STP 1005

Descriptive Properties	Value	Comments
	Weatherstripping	

## Contact Songhan Plastic Technology Co.,Ltd.

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