

PolyOne Geon™ 180 Series 180X5 Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Geon® 180X5 is low molecular weight resin that provides good chemical foam characteristics with excellent overblow resistance. The modified rheology of Geon® 180X5 provides increased viscosity and yield throughputs. Geon® 180X5 is recommended for applications where high Brookfield Viscosity and yield are required such as highly plasticized low density chemcially blown foams, plastisol screen inks, coated fabric applications requiring low 'wicking' characteristics, and highly plasticized formulations. 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® 180X5, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 390 (formulation): 100phr Geon® 180X5, and 60phr DOP Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-180-Series-180X5-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 ³	
Fineness	4.75	4.75	Hegman, North Fineness; Geon® 390
Relative Viscosity	2.2 cP	2.2 cP	Correlation, Cyclohexanone 1%; Internal Method
Brookfield Viscosity	18 cP	18 cP	Initial Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	22.1 cP	22.1 cP	One Day Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	46.4 cP	46.4 cP	Initial Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	51.9 cP	51.9 cP	One Day Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
Viscosity Measurement	0.90	0.90	Inherent; ASTM D1243-60-A
Melt Flow	78 g/10 min	78 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
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Mechanical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Gloss	90 %	90 %	60 Degree Fused 5 mins @ 350FGeon® ALTC 65 (with provided formulation); Internal Method
Transmission, Visible	65 %	65 %	Geon® ALTC 66 (with provided formulation); Internal Method

Processing Properties	Metric	English	Comments
Moisture Content	0.070 %	0.070 %	Karl FisherGeon® STP 683; Internal Method

Descriptive Properties	Value	Comments
Features	Foamable	
	High Viscosity	
	Low Molecular Weight	
Forms	Powder	Fine, White Powder
Gel Temperature	68 °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	4.2%	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

Uses Descriptive Properties	Fabric Coatings Value	Comments
	Foam	
	Printing Ink	

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