

PolyOne Geon™ 180 Series 186A Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Geon® 186A is low molecular weight homopolymer resin, providing a good balance of fused film physical properties and fusion characteristics. It provides excellent chemical foam characteristics with good overblow resistance. It gives good dispersability for plastisol preparation. Geon® 186A is recommended for applications where an overall balance of good rheological and fused film physical properties are required such as low density chemcially blown foams, fabric coating applications, and plastisol screen printing inks. 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® 186A, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 390 (formulation): 100phr Geon® 186A, and 60phr DOP Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-180-Series-186A-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	6.95 cP	6.95 cP	Initial Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	9.0 cP	9.0 cP	Initial Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	9.28 cP	9.28 cP	One Day Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
Viscosity Measurement	12.6 cP	12.6 cP	One Day Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	1.0	1.0	Inherent; ASTM D1243-60-A
Melt Flow	90 g/10 min	90 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	87 %	87 %	60 Degree Fused 5 mins @ 350F Geon® ALTC 65 (with provided formulation); Internal Method
Transmission, Visible	78 %	78 %	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	
	Medium Molecular Weight	
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
Uses	Fabric Coatings	

Descriptive Properties	Foam Value	Comments
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