

PolyOne Geon™ 120 Series 121A Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Geon® 121A is high molecular weight resin providing good fused film physical properties. It provides good chemical foamability for producing medium to high density foams. It gives good dispersability for easier plastisol preparation. Geon® 121A is recommended for medium to high density foam or solid applications where good fused film physical properties are required such as spread and spray coating, dip coating and molding, slush and rotational molding. 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® 121A, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 390 (formulation): 100phr Geon® 121A, and 60phr DOP. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-120-Series-121A-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	0.465 g/cc	0.0168 lb/in ³	
Fineness	5.0	5.0	North Fineness; Geon® 390
Relative Viscosity	2.65 cP	2.65 cP	Correlation, Cyclohexanone 1%; Internal Method
Brookfield Viscosity	4.43 cP	4.43 cP	Initial Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	4.8 cP	4.8 cP	One Day Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	4.9 cP	4.9 cP	Initial Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	5.3 cP	5.3 cP	One Day Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
Viscosity Measurement	1.2	1.2	Inherent; ASTM D1243-60-A
Melt Flow	72 g/10 min	72 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
	20.9 MPa	3030 psi	Optimum; With provided formulation;

Tensile Strength Mechanical Properties	Metric	English	ASTM D638 Comments
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Optical Properties	Metric	English	Comments
Gloss	82 %	82 %	60 Degree Fused 5 mins @ 350FGeon® ALTC 65 (with provided formulation); Internal Method
Transmission, Visible	77 %	77 %	Geon® ALTC 66 (with provided formulation); Internal Method

Processing Properties	Metric	English	Comments
Moisture Content	0.050 %	0.050 %	Karl FisherGeon® STP 683; Internal Method

Descriptive Properties	Value	Comments
Features	Foamable	
	High Molecular Weight	
Forms	Powder	Fine, White Powder
Gel Temperature	69 °C	Geon® ALTC 29 (with provided formulation)
Generic Material	PVC Homopolymer	
Generic Name	Polyvinyl Chloride Homopolymer (PVC Homopolymer)	
K-Value	74	Internal Method; Correlation, 0.5gm/ 100ml
Methanol Extractables	3%	Internal Method; Geon® STP 894
Polymerization Process	Microsuspension	
Processing Method	Coating	
	Dip Coating	
	Rotational Molding	
	Slush Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

Descriptive Properties	Value	Comments
Residual Vinyl Chloride Monomer	< 9 ppm	Internal Method, Geon® STP 1005
Uses	Coating Applications	
	Film	
	Foam	

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