

## PolyOne Geon™ 120 Series 124A Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

### Material Notes:

Geon® 124A is low molecular weight resin providing lower gelation and faster fusion characteristics. It provides good chemical foamability for producing medium to high density foams. It gives good dispersability for plastisol formulations. Geon® 124A is recommended for medium to high density foam applications where good physical properties at lower temperatures are required. 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® 124A, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 390 (formulation): 100phr Geon® 124A, and 60phr DOP Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Geon-120-Series-124A-Polyvinyl-Chloride-Homopolymer-PVC-Homopolymer.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-120-Series-124A-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 <sup>3</sup>	
Fineness	4.75	4.75	Hegman, North Fineness; Geon® 390
Relative Viscosity	2.12 cP	2.12 cP	Correlation, Cyclohexanone 1%; Internal Method
Brookfield Viscosity	4.95 cP	4.95 cP	Initial Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	5.43 cP	5.43 cP	Initial Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	6.15 cP	6.15 cP	One Day Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
Viscosity Measurement	6.93 cP	6.93 cP	One Day Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	0.85	0.85	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
	17.7 MPa	2570 psi	Optimum; With provided formulation;

Tensile Strength Mechanical Properties	Metric	English	ASTM D638 Comments
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Optical Properties	Metric	English	Comments
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Gloss	92 %	92 %	60 Degree Fused 5 mins @ 350F Geon® ALTC 65 (with provided formulation); Internal Method
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Transmission, Visible	75 %	75 %	Geon® ALTC 66 (with provided formulation); Internal Method
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Processing Properties	Metric	English	Comments
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Moisture Content	0.060 %	0.060 %	Karl Fisher Geon® STP 683; Internal Method
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Descriptive Properties	Value	Comments
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Features	Foamable	
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	Low Molecular Weight	
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Forms	Powder	Fine, White Powder
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Gel Temperature	69 °C	Internal Method; Geon® ALTC 29 (with provided formulation)
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Generic Material	PVC Homopolymer	
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Generic Name	Polyvinyl Chloride Homopolymer (PVC Homopolymer)	
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K-Value	64	Internal Method; Correlation, 0.5gm/ 100ml
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Methanol Extractables	3.2%	Internal Method; Geon® STP 894
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Polymerization Process	Microsuspension	
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Processing Method	Coating	
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	Dip Coating	
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	Rotational Molding	
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	Slush Molding	
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Regional Availability	Africa & Middle East	
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	Asia Pacific	
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	Europe	
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	North America	
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	South America	
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Descriptive Properties <sup>®</sup> Monomer	Value	Comments
Uses	Coating Applications	Common Method; Geon® STP 1005
	Foam	

## Contact Songhan Plastic Technology Co.,Ltd.

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