

## PolyOne Geon™ 170 Series 171 Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

### Material Notes:

Geon® 171 is an ultra-high molecular weight, fine particle size homopolymer dispersion resin intended for use in thin, organosol cast coatings and films. This resin provides excellent fused film and chemical resistance properties. The low residual emulsifier level provides good end product performance in the areas of clarity, moisture blush resistance and low taste and odor. Geon® 171 is accepted by FDA for use under 21CFR175.300, food contact application. 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® STP 1434 (formulation): 100phr Geon® 171, 55phr Aromatic100, 20phr Drapex 334-F, 5phr ESO, and 3phr Therm-Chek SP 120 LOHF. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Geon-170-Series-171-Polyvinyl-Chloride-Homopolymer-PVC-Homopolymer.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-170-Series-171-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	0.272 g/cc	0.00983 lb/in <sup>3</sup>	
Fineness	5.5	5.5	Hegman, North Fineness; Geon® STP 1434
Relative Viscosity	3.04 cP	3.04 cP	Correlation, Cyclohexanone 1%; Internal Method
Brookfield Viscosity	175 cP	175 cP	One Hour Viscosity @ 30rpm Geon® STP 1434 (with provided formulation); Internal Method
	200 cP	200 cP	One Day Viscosity @ 30rpm Geon® STP 1434 (with provided formulation); Internal Method
	300 cP	300 cP	One Hour Viscosity @ 6rpm Geon® STP 1434 (with provided formulation); Internal Method
	375 cP	375 cP	One Day Viscosity @ 6rpm Geon® STP 1434 (with provided formulation); Internal Method
Viscosity Measurement	1.4	1.4	Inherent; ASTM D1243-60-A

Processing Properties	Metric	English	Comments
Moisture Content	0.090 %	0.090 %	Karl Fisher Geon® STP 683; Internal Method

Descriptive Properties	Value	Comments
Clean Point	5.25 Hegman	Internal Method; GrindGeon® STP 1434 (with provided formulation)
Features	Low to No Odor	
	Low to No Taste	
	Ultra High Molecular Weight	
Forms	Powder	Fine, white powder
Generic Material	PVC Homopolymer	
Generic Name	Polyvinyl Chloride Homopolymer (PVC Homopolymer)	
K-Value	82	No Standard; Correlation, 0.5g/100ml
Methanol Extractables	1.3%	Internal Method; Geon® STP 894
Polymerization Process	Emulsion	
Processing Method	Casting	
	Coating	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Residual Vinyl Chloride Monomer	< 1 ppm	Internal Method; Geon® STP 1005
Uses	Coating Applications	
	Film	

## Contact Songhan Plastic Technology Co.,Ltd.

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