

PolyOne Geon™ 170 Series Adept E 49 Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Geon® Adept E49 is a low molecular weight homopolymer dispersion resins intended for use in variety of plastisol applications and processes. It reduces scrap rates and manufacturing costs by extending plastisol shelf life with reduced viscosity aging performance. It improves non settling characteristic in hot melt system. Geon® Adept E49 is recommended for solid plastisol applications for instance the hard and soft products produced from hot melt plastisols, high clarity and gloss textile 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® Adept E 49, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 390(formulation): 100phr Geon® Adept E 49, and 60phr DOP Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-170-Series-Adept-E-49-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 ³	
Fineness	5.0	5.0	Hegman, North Fineness; Geon® 390
Relative Viscosity	2.12 cP	2.12 cP	Correlation, Cyclohexanone 1%; Internal Method
Brookfield Viscosity	2.65 cP	2.65 cP	Initial Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	3.35 cP	3.35 cP	One Day Viscosity @ 20 rpm Geon® ALTC 22 (with provided formulation); Internal Method
	3.85 cP	3.85 cP	Initial Viscosity @ 2 rpm Geon® ALTC 22 (with provided formulation); Internal Method
Viscosity Measurement	4.95 cP	4.95 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	120 g/10 min	120 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 @ 350F Geon® ALTC 65 (with provided formulation); Internal Method
Transmission, Visible	97 %	97 %	Geon® ALTC 66 (with provided formulation); Internal Method

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

Descriptive Properties	Value	Comments
Features	High Clarity	
	High Gloss	
Forms	Powder	Fine, white powder
Gel Temperature	71 °C	Internal Method; Geon® ALTC 29 (with provided formulation)
Generic Material	PVC Homopolymer	
Generic Name	Polyvinyl Chloride Homopolymer (PVC Homopolymer)	
K-Value	64	Internal Method; Correlation, (0.5gm/100ml)
Methanol Extractables	1.3%	Internal Method; Geon® STP 894
Polymerization Process	Emulsion	
Processing Method	Dip Coating	
	Hot Melt	
	Ink Jet Digital Printing	
	Rotational Molding	
	Slush Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	

Descriptive Properties	Value	Comments
	South America	
Residual Vinyl Chloride Monomer	< 9 ppm	Internal Method; Geon® STP 1005

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