

PolyOne Geon™ Specialty Suspension Atlas E 43 Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Geon® Atlas E 43 is a non-chain modified ultra-high molecular weight homopolymer specialty suspension resin intended for use in high strength extruded parts. It improves the physical properties, for instance compression, tensile and flexural strength performance. The high porosity property of this resin allows rapid plasticizer absorption in highly plasticized compounds providing low compound cycle times and resulting in high compound throughput and low manufacturing cost. Geon® Atlas E 43 improves heat distortion (HDT) performance, increases the strength for highly plasticized formulas, and provides longer product shelf life. 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, netweight 50lbs, 2,500lbs per pallet. Information shown on the package includes commercial identification number, lot, and weight. STP 488 (formulation): 100phr Geon® Atlas E 43, 55phr TOTM, and 18phr Filler ASTM D638 (formulation): 100phr Geon® Atlas E 43, 60phr DINP, 5phr ESO, and 2phr Mark 4716 Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Specialty-Suspension-Atlas-E-43-Polyvinyl-Chloride-Homopolymer-PVC-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Volatiles	0.18 %	0.18 %	Geon® STP 793; Internal Method
Apparent Bulk Density	0.440 g/cc	0.0159 lb/in ³	Geon® STP 1169; Internal Method
Porosity	0.54 %	0.54 %	cm ³ /g; Geon® STP 1094; Internal Method
Particle Size	<= 105 µm	<= 105 µm	37%; Geon® DFT 1466; Internal Method
	150 µm	150 µm	Average Particle Size Geon® DFT 1466; Internal Method
	>= 250 µm	>= 250 µm	10%; Geon® DFT 1466; Internal Method
Relative Viscosity	4.1 cP	4.1 cP	Correlation, Cyclohexanone 1%; Internal Method
Viscosity Measurement	1.8	1.8	Inherent; ASTM D1243-60-A

Mechanical Properties	Metric	English	Comments
Tensile Strength	18.7 MPa	2710 psi	Optimum; With provided formulation; ASTM D638

Descriptive Properties	Value	Comments
Contamination	2	Internal Method; Magnetic ParticlesGeon® STP 1217 Unit: #/100in2
	2	Internal Method; Dark ParticlesGeon® STP 1217 Unit: #/100in2
	5	Internal Method; Light Colored ParticlesGeon® STP 1217 Unit: #/100in2
Features	High Strength	
Flow Time	30 sec	Internal Method; Conditioned Funnel Flow TimeGeon® STP 1169
Forms	Powder	White powder
Generic Material	PVC Homopolymer	
Generic Name	Polyvinyl Chloride Homopolymer (PVC Homopolymer)	
K-Value	96	Internal Method; Correlation, 0.5g/100ml
Polymerization Process	Suspension	
Powder Mix Time	42 sec	Internal Method; Geon® STP 488 (with provided formulation)
Processing Method	Extrusion	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Residual Vinyl Chloride Monomer	< 1 ppm	Internal Method; Geon® STP 1005
Uses	Tubing	
	Wire & Cable Applications	

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