Geon™ Specialty Suspension Atlas S140

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

Message:

Geon® Atlas S140 is high molecular weight homopolymer specialty suspension resin intended for use in high strength extruded parts. It improves the physical performance of end application for intsance wire and cable insulation, extruded tubes. The high porosity property of this resin allows rapid plasticizer absorption reducing the compound cycle times and resulting in high compound throughput and low manufacturing cost. Geon® Atlas S140 improves heat distortion (HDT) performance, increase the strength for highly plasticized formulas, and provides longer product shelf life.

General Information			
Features	High strength		
Uses	Wire and cable applications Insulating material		
Forms	Powder 1		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.40	g/cm³	ASTM D792
K-Value [1]	82.0		Internal method
Contamination			Internal method
Dark Particles [2]	1		Internal method
Light Colored Particles [3]	4		Internal method
Magnetic Particles [4]	0		Internal method
Apparent loose density [5]	0.410	g/cm³	Internal method
Intrinsic Viscosity [6]	1.4		ASTM D1243-60-A
Particle Size			Internal method
<105 micron [7]	14.8	%	Internal method
> 250 micron [8]	3.40	%	Internal method
Average Particle Size [9]	145	µm	Internal method
Relative Viscosity [10]	3.10		Internal method
Optimal stretching [11]	17.9	MPa	ASTM D638
Powder Mix Time [12]	2.6	min	Internal method
Residual Vinyl Chloride Monomer [13]		ppm	Internal method
Volatiles [14]	0.070	%	Internal method
polymerization process	Suspension		
Porosity [15]	0.570	cm³/g	Internal method
Flow time-Conditioned Funnel Flow Time [16]	27.0	sec	Internal method
Additional Information	**Nominal Value**	**Unit**	**Test Method**

Note:The value set forth represent 'typical' values and Mexichem Specialty Resins, 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 S140, 55phr TOTM, and 18phr FillerASTM D638 (formulation): 100phr Geon® Atlas S140, 60phr DINP, 5phr ESO, and 2phr Mark 4716

NOTE	
1.	Interrelationship
2.	Geon® 1217
3.	Geon® 1005
4.	Geon® STP 1217Unit: #/100in2
5.	Geon® STP 1169
6.	Puli 1386
7.	Through the 140 net, Geon®812
8.	Keep at 40 60 nets, Geon®812
9.	Geon® DFT 1466
10.	Interrelationship
11.	With provided formulation
12.	Geon® STP 488 with provided formulation
13.	Geon® STP 1005
14.	Bags, Geon®793
15.	Geon® 1094
16.	Geon® STP 1169

Recommended distributors for this material

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Email: sales@su-jiao.com

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