

Geon™ Specialty Suspension Atlas E 46

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

Message:

Geon® Atlas E 46 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 instance wire and cable insulation, extruded tubes. 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 46 improves heat distortion (HDT) performance and increases the strength for highly plasticized formulas, and provides longer product shelf life.

| General Information | | | |
|------------------------------------------------------|-----------------------------|--------------------|-----------------|
| Features | High strength | | |
| Uses | Wire and cable applications | | |
| | Pipe fittings | | |
| Forms | Powder 1 | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.40 | g/cm ³ | ASTM D792 |
| K-Value ¹ | 87.0 | | 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 | 0.420 | g/cm ³ | Internal method |
| Intrinsic Viscosity ⁶ | 1.6 | | ASTM D1243-60-A |
| Particle Size | | | Internal method |
| < 105 micron ⁷ | 6.90 | % | Internal method |
| > 250 micron ⁸ | 2.50 | % | Internal method |
| Average Particle Size ⁹ | 150 | µm | Internal method |
| Relative Viscosity ¹⁰ | 3.55 | | Internal method |
| Optimal stretching ¹¹ | 18.6 | MPa | ASTM D638 |
| Powder Mix Time ¹² | 3.6 | min | Internal method |
| Residual Vinyl Chloride Monomer ¹³ | | ppm | Internal method |
| Volatiles ¹⁴ | 0.070 | % | Internal method |
| polymerization process | Suspension | | |
| Porosity ¹⁵ | 0.550 | cm ³ /g | Internal method |
| Flow time-Conditioned Funnel Flow Time ¹⁶ | 25.0 | sec | Internal method |
| Additional Information | Nominal Value | Unit | Test Method |

Note: The value set forth represents '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 E 46, 55phr TOTM, and 18phr Filler ASTM D638 (formulation): 100phr Geon® Atlas E 46, 60phr DINP, 5phr ESO, and 2phr Mark 4716

NOTE

| | |
|-----|-------------------------------------------|
| 1. | Interrelationship |
| 2. | Geon® 1217 |
| 3. | Geon® 1005 |
| 4. | Geon® STP 1217 Unit: #/100in ² |
| 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 |

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