

PolyOne Geon™ Specialty Suspension Impel S100 Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Geon® Impel S100 is a homopolymer specialty suspension resin intended for use in highly plasticized extrusion and injection molding formulations. It gives superior plasticizer absorption properties allowing the production of low durometer compounds. Quick plasticizer uptake provides a reduction of mix time allowing the higher production rate, reducing compounding times and manufacturing costs. 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® Impel S100, 55phr TOTM, and 18phr Filler Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Specialty-Suspension-Impel-S100-Polyvinyl-Chloride-Homopolymer-PVC-Homopolymer.php

| Physical Properties | Metric | English | Comments |
|-----------------------|------------|---------------------------|---|
| Specific Gravity | 1.40 g/cc | 1.40 g/cc | ASTM D792 |
| Volatiles | 0.070 % | 0.070 % | Geon® STP 793; Internal Method |
| Apparent Bulk Density | 0.410 g/cc | 0.0148 lb/in ³ | Geon® STP 1169; Internal Method |
| Porosity | 0.53 % | 0.53 % | cm ³ /g; Geon® STP 1094; Internal Method |
| Particle Size | <= 105 µm | <= 105 µm | 14%; Geon® DFT 1466; Internal Method |
| | 150 µm | 150 µm | Average Particle Size Geon® STP 1466; Internal Method |
| | >= 250 µm | >= 250 µm | 4%; Geon® DFT 1466; Internal Method |
| Relative Viscosity | 2.37 cP | 2.37 cP | Correlation, Cyclohexanone 1%; Internal Method |
| Viscosity Measurement | 1.0 | 1.0 | Inherent; ASTM D1243-60-A |

| Descriptive Properties | Value | Comments |
|------------------------|--------|--|
| Contamination | 0 | Internal Method; Magnetic Particles Geon® STP 1217 Unit: #/100in ² |
| | 18 | Internal Method; Dark Particles Geon® STP 1217 Unit: #/100in ² |
| | 22 | Internal Method; Light Colored Particles Geon® STP 1217 Unit: #/100in ² |
| Flow Time | 34 sec | Internal Method; Conditioned Funnel Flow Time Geon® STP 1169 |

| Descriptive Properties | Value | Comments |
|---------------------------------|--|--|
| Generic Material | PVC Homopolymer | |
| Generic Name | Polyvinyl Chloride Homopolymer (PVC Homopolymer) | |
| K-Value | 70 | Internal Method; Correlation, 0.5g/ 100ml |
| Polymerization Process | Suspension | |
| Powder Mix Time | 4.4 min | Internal Method; Geon® STP 488 (with provided formula) |
| Processing Method | Calendering | |
| | Extrusion | |
| | Injection Molding | |
| Regional Availability | Africa & Middle East | |
| | Asia Pacific | |
| | Europe | |
| | North America | |
| | South America | |
| Residual Vinyl Chloride Monomer | < 1 ppm | Internal Method; Geon® STP 1005 |
| Uses | Insulation | |
| | Wire & Cable Applications | |

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