PolyOne Geon[™] 170 Series 178 Polyvinyl Chloride Homopolymer (PVC Homopolymer)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Geon® 178 is a high molecular weight, fine particle size homopolymer dispersion resin. It provides the ability to produce thin gauge coatings. It is recommended for applications such as food and beverage can and can end coatings, and cast commercial graphic and fleet signage films. Its fine particle size provides good dispersibility, improving the product throughput during manufacturing process. Geon® 178 is accepted by FDA for use under 21CFR175.300, food contact application.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® STP 1434 (formulation): 100phr Geon® 178, 55phr Aromatic100, 20phr Drapex 334-F, 5phr ESO, and 3phr Therm-Chek SP 120 LOHFInformation provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-170-Series-178-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 | 5.5 | 5.5 | Hegman, North Fineness; Geon® STP 1434 |
| Relative Viscosity | 2.71 cP | 2.71 cP | Correlation, Cyclohexanone 1%; Internal Method |
| Brookfield Viscosity | 200 cP | 200 cP | One Hour Viscosity @ 30rpmGeon® STP 1434 (with provided formulation); Internal Method |
| | 225 cP | 225 cP | One Day Viscosity @ 30rpmGeon® STP 1434 (with provided formulation); Internal Method |
| | 300 cP | 300 cP | One Hour Viscosity @ 6rpmGeon® STP 1434 (with provided formulation); Internal Method |
| | 400 cP | 400 cP | One Day Viscosity @ 6rpmGeon® STP 1434 (with provided formulation); Internal Method |
| Viscosity Measurement | 1.2 | 1.2 | Inherent; ASTM D1243-60-A |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------|---------|--|
| Moisture Content | 0.090 % | 0.090 % | Karl FisherGeon® STP 683; Internal Method |

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| Descriptive Properties | Value | Comments |
|------------------------------------|---|--|
| Clean Point | 5 Hegman | Internal Method; GrindGeon® STP 1434 (with provided formulation) |
| Features | Low to No Odor | |
| | Low to No Taste | |
| Forms | Powder | Fine, white powder |
| Generic Material | PVC Homopolymer | |
| Generic Name | Polyvinyl Chloride Homopolymer (PVC Homopolymer) | |
| K-Value | 75 | Internal Method; Correlation, 0.5g/100ml |
| Methanol Extractables | 1.3% | Internal Method; Geon® STP 894 |
| Polymerization Process | Emulsion | |
| Processing Method | Casting | |
| | Coating | |
| Regional Availability | Africa & Middle East | |
| | Asia Pacific | |
| | Europe | |
| | North America | |
| | South America | |
| Residual Vinyl Chloride Monomer | < 1 ppm | Internal Method; Geon® STP 1005 |
| Uses | Coating Applications | |
| | Film | |
| | Protective Coatings | |

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