

Geon™ 170 Series Adept E 49

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

Message:

Geon® Adept E49 is a low molecular weight homopolymer dispersion resins intended for use in variety of plastisol applications and processes. It reduces scrap rates and manufacturing costs by extending plastisol shelf life with reduced viscosity aging performance. It improves non settling characteristic in hot melt system.

Geon® Adept E49 is recommended for solid plastisol applications for instance the hard and soft products produced from hot melt plastisols, high clarity and gloss textile screen (printing) inks.

| General Information | |
|---------------------|---|
| Features | Highlight Definition, high |
| Forms | Powder 1 |
| Processing Method | Hot Melt Ink Jet Digital Printing Slush Molding rotomolding Impregnation coating method |

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|-----------------|
| Specific Gravity | 1.40 | g/cm ³ | ASTM D792 |
| K-Value ¹ | 64.0 | | Internal method |
| Intrinsic Viscosity ² | 0.85 | | ASTM D1243-60-A |
| Humidity-Karl Fisher ³ | 0.090 | % | Internal method |
| Volume density | 272 | g/l | |
| Relative Viscosity ⁴ | 2.12 | | Internal method |
| Optimal stretching ⁵ | 10.7 | MPa | ASTM D638 |
| Gloss-60 degree fused 5 mins @ 350F ⁶ | 90 | % | Internal method |
| Transparency-light transmittance ⁷ | 97 | % | Internal method |
| Brokfield Viscosity | | | Internal method |
| Initial Viscosity @ 2 rpm ⁸ | 3.85 | Pa · s | Internal method |
| Initial Viscosity @ 20 rpm ⁹ | 2.65 | Pa · s | Internal method |
| One Day Viscosity @ 2 rpm ¹⁰ | 4.95 | Pa · s | Internal method |
| One Day Viscosity @ 20 rpm ¹¹ | 3.35 | Pa · s | Internal method |
| Cut off the outflow-95 psi ¹² | 120.00 | g/10 min | Internal method |
| North fineness ¹³ | 5.00 | Hegman | Internal method |
| Residual Vinyl Chloride Monomer ¹⁴ | | ppm | Internal method |
| Methanol extractable ¹⁵ | 1.3 | % | Internal method |
| polymerization process | Suspension | | |

| Gel temperature ¹⁶ | 71 | °C | Internal method |
|--|---|------|-----------------|
| Additional Information | Nominal Value | Unit | Test Method |
| <p>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, net weight 50 lbs, 2500 lbs per pallet. Information shown on the package includes commercial identification number, lot and weight. Geon® ALTC and ASTM D638 (formulation): 100phr Geon® Adept E 49, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 390 (formulation): 100phr Geon® Adept E 49, and 60phr DOP</p> | | | |
| NOTE | | | |
| 1. | Interrelationship | | |
| 2. | Puli 1386 | | |
| 3. | Geon® STP 683 | | |
| 4. | Interrelationship | | |
| 5. | With provided formulation | | |
| 6. | Geon® ALTC 65 (with provided formulation) | | |
| 7. | Geon® ALTC 66 (with provided formulation) | | |
| 8. | Geon® 1169 | | |
| 9. | Geon® ALTC 22 (with provided formulation) | | |
| 10. | Geon® ALTC 22 (with provided formulation) | | |
| 11. | Geon® ALTC 22 (with provided formulation) | | |
| 12. | Geon® ALTC 23 (with provided formulation) | | |
| 13. | Geon® STP 390 (with provided formulation) | | |
| 14. | Geon® STP 1005 | | |
| 15. | Geon® STP 894 | | |
| 16. | Geon® 1458 | | |

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