

Geon™ 210 Series 217 Blending Resin

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

Message:

Geon® 217 is a low to medium molecular weight homopolymer blending resin intended for use as a formulation tool in plastisol formulations. It improves air release performance resulting in reduced scrap rates. It decreases high shear viscosity providing an improved 'ease of coating' performance resulting in a more uniform plastisol coating and improving line up time. It reduces viscosity aging characteristics, providing increased plastisol usage (pot life). It reduces surface gloss of films or coated products resulting in less surface blocking and improved handling.

Geon® 217 is recommended for solid and foamed plastisol applications such as coated fabric, cast films and coatings, foam mats and pads.

| General Information | | | |
|---------------------|-----------------------------|--|--|
| Features | Foamable property | | |
| Uses | Foam | | |
| | Fabric coating | | |
| Forms | Powder | | |
| Processing Method | rotomolding | | |
| | Casting | | |
| | Impregnation coating method | | |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-----------------|
| Specific Gravity | 1.40 | g/cm ³ | ASTM D792 |
| K-Value ¹ | 67.0 | | |
| Apparent loose density ² | 0.530 | g/cm ³ | Internal method |
| Intrinsic Viscosity | 0.92 | | ASTM D1243-60-A |
| Particle Size | | | Internal method |
| < 52 Micron ³ | 94.2 | % | Internal method |
| < 74 Micron ⁴ | 99.0 | % | Internal method |
| Average Particle Size ⁵ | 30.0 | µm | Internal method |
| Relative Viscosity ⁶ | 2.23 | | Internal method |
| Haze - Fused 5 mins (177°C) ⁷ | 54 | % | Internal method |
| Gloss-60° Fused 5 mins(177°C) ⁸ | 18 | % | Internal method |
| Brokfield Viscosity | | | Internal method |
| FF ⁹ | 2.30 | Pa · s | Internal method |
| Initial Viscosity @ 20 rpm ¹⁰ | 2.38 | Pa · s | Internal method |
| Initial Viscosity @ 2rpm ¹¹ | 2.30 | Pa · s | Internal method |
| One Day Viscosity @ 20rpm ¹² | 2.40 | Pa · s | Internal method |
| Cut off the outflow-95 psi ¹³ | 522.00 | g/10 min | Internal method |
| Residual Vinyl Chloride Monomer ¹⁴ | | ppm | Internal method |
| Volatiles ¹⁵ | 0.050 | % | Internal method |
| polymerization process | Suspension | | |

| Gel temperature-PP ¹⁶ | 92 | °C | Internal method |
|----------------------------------|---------------|------|-----------------|
| Vinyl diffuser ¹⁷ | 95.0 | μm | 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, net weight 50 lbs, 2500 lbs per pallet. Information shown on the package includes commercial identification number, lot and weight. Geon® ALTC (formulation): 60phr Geon® 121A, 40phr Geon® 217, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 1203 (formulation): 60phr Geon® 178, 40phr Geon® 217, and 60phr DOP

| NOTE | |
|------|--|
| 1. | Interrelationship |
| 2. | Geon® STP 1169 |
| 3. | <53 μ |
| 4. | Geon® DFT 1466 |
| 5. | Geon® 812 |
| 6. | 1% Cyclohexanone |
| 7. | 60, melting for 3 minutes, ALTC-65 |
| 8. | 60, melt for 5 minutes, ALTC-65 |
| 9. | Geon® ALTC 22 (with provided formulation) |
| 10. | One day, V12, Geon® 1010 |
| 11. | Initial, V12, Geon® 1010 |
| 12. | Geon® ALTC 22 (with provided formulation) |
| 13. | 95 psi |
| 14. | Geon® STP 1005 |
| 15. | Bags, Geon® 793 |
| 16. | Geon® ALTC 29 (with provided formulation) |
| 17. | Geon® STP 1203 (with provided formulation) |

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