

Geon™ 180 Series 180X5

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

Message:

Geon® 180X5 is low molecular weight resin that provides good chemical foam characteristics with excellent overblow resistance. The modified rheology of Geon® 180X5 provides increased viscosity and yield throughputs.

Geon® 180X5 is recommended for applications where high Brookfield Viscosity and yield are required such as highly plasticized low density chemcially blown foams, plastisol screen inks, coated fabric applications requiring low 'wicking' characteristics, and highly plasticized formulations.

| General Information | | | |
|--|----------------------|-------------------|-----------------|
| Features | Low molecular weight | | |
| | Foamable property | | |
| | Viscosity, High | | |
| Uses | Foam | | |
| | Printing ink | | |
| | Fabric coating | | |
| Forms | Powder 1 | | |
| Processing Method | Plastisol | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.40 | g/cm ³ | ASTM D792 |
| K-Value ¹ | 65.0 | | Internal method |
| Intrinsic Viscosity | 0.90 | | ASTM D1243-60-A |
| Humidity-Karl Fisher ² | 0.070 | % | Internal method |
| Volume density | 400 | g/l | |
| Relative Viscosity ³ | 2.20 | | Internal method |
| Optimal stretch-PP ⁴ | 19.3 | MPa | ASTM D638 |
| Gloss-60 degree fused 5 mins @ 350F ⁵ | 90 | % | Internal method |
| Transparency-light transmittance ⁶ | 65 | % | Internal method |
| Brokfield Viscosity | | | Internal method |
| Initial Viscosity @ 2 rpm ⁷ | 46.4 | Pa · s | Internal method |
| Initial Viscosity @ 20 rpm ⁸ | 18.0 | Pa · s | Internal method |
| One Day Viscosity @ 2 rpm ⁹ | 51.9 | Pa · s | Internal method |
| One Day Viscosity @ 20 rpm ¹⁰ | 22.1 | Pa · s | Internal method |
| Cut off the outflow-95 psi ¹¹ | 78.00 | g/10 min | Internal method |
| North fineness ¹² | 4.75 | Hegman | Internal method |
| Residual Vinyl Chloride Monomer ¹³ | | ppm | Internal method |
| Methanol extractable ¹⁴ | 4.2 | % | Internal method |
| polymerization process | Dispersion | | |
| Gel temperature-PP ¹⁵ | 68 | °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® 180X5, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOHF Geon® STP 390 (formulation): 100phr Geon® 180X5, and 60phr DOP</p> | | | |
| NOTE | | | |
| 1. | Interrelationship | | |
| 2. | Karl Fisher-Geon® 683c | | |
| 3. | Interrelationship | | |
| 4. | With provided formulation | | |
| 5. | 60°, FF, ALTC-65 | | |
| 6. | PP, ATLC-66 | | |
| 7. | Initial V2, Geon® 1253 | | |
| 8. | Initial, V20, Geon® 1253 | | |
| 9. | One day, V2 | | |
| 10. | One day, V20 | | |
| 11. | 95 psi, Geon® 1010 | | |
| 12. | Geon® 390 | | |
| 13. | Geon® STP 1005 | | |
| 14. | Geon® 894 | | |
| 15. | Geon® ALTC 29 (with provided formulation) | | |

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