

Geon™ 180 Series 186A

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

Message:

Geon® 186A is low molecular weight homopolymer resin, providing a good balance of fused film physical properties and fusion characteristics. It provides excellent chemical foam characteristics with good overblow resistance. It gives good dispersability for plastisol preparation.

Geon® 186A is recommended for applications where an overall balance of good rheological and fused film physical properties are required such as low density chemically blown foams, fabric coating applications, and plastisol screen printing inks.

| General Information | | | |
|--|-------------------------|-------------------|-----------------|
| Features | Foamable property | | |
| | Medium molecular weight | | |
| Uses | Foam | | |
| | 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 | 1.0 | | ASTM D1243-60-A |
| Humidity-Karl Fisher ² | 0.060 | % | Internal method |
| Volume density | 400 | g/l | |
| Relative Viscosity ³ | 2.20 | | Internal method |
| Optimal stretch-PP ⁴ | 20.7 | MPa | ASTM D638 |
| Gloss-60 degree fused 5 mins @ 350F ⁵ | 87 | % | Internal method |
| Transparency-Transmittance-PP ⁶ | 78 | % | Internal method |
| Brokfield Viscosity | | | Internal method |
| Initial Viscosity @ 2 rpm ⁷ | 9.00 | Pa · s | Internal method |
| Initial Viscosity @ 20 rpm ⁸ | 6.95 | Pa · s | Internal method |
| One Day Viscosity @ 2 rpm ⁹ | 12.6 | Pa · s | Internal method |
| One Day Viscosity @ 20 rpm ¹⁰ | 9.28 | Pa · s | Internal method |
| Cut off the outflow-95 psi ¹¹ | 90.00 | g/10 min | Internal method |
| North fineness ¹² | 4.75 | Hegman | Internal method |
| Residual Vinyl Chloride Monomer ¹³ | | ppm | Internal method |
| Methanol extractable ¹⁴ | 3.5 | % | Internal method |
| polymerization process | Dispersion | | |
| Gel temperature-PP ¹⁵ | 72 | °C | Internal method |
| Additional Information | Nominal Value | Unit | Test Method |

Note: The value set forth represent "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® 186A, 57phr DINP, 3phr ESO, and 2phr Therm-Chek SP 120 LOH Geon® STP 390 (formulation): 100phr Geon® 186A, and 60phr DOP

| NOTE | |
|------|---|
| 1. | Interrelationship |
| 2. | Karl Fisher-Geon® 683c |
| 3. | Interrelationship |
| 4. | With provided formulation |
| 5. | 60°,FF,ALTC-65 |
| 6. | Geon® ALTC 66 (with provided formulation) |
| 7. | Initial, V12,Geon® 1010 |
| 8. | One day, V12,Geon® 1010 |
| 9. | Geon® ALTC 22 (with provided formulation) |
| 10. | Geon® ALTC 22 (with provided formulation) |
| 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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

