

Geon™ 120 Series M117

Polyvinyl Chloride Homopolymer

Mexichem Specialty Resins, Inc.

Message:

Geon™ 120 Series M117 is a polyvinyl chloride homopolymer (PVC homopolymer) material. The product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing methods are: slush molding, rotational molding, dip coating or coating. Geon™ The main characteristics of 120 Series M117 are: high strength.

| General Information | | | |
|---------------------|-----------------------------|--|--|
| Features | High strength | | |
| Forms | Powder 1 | | |
| Processing Method | Slush Molding | | |
| | rotomolding | | |
| | Impregnation coating method | | |
| | Coating | | |

| Physical | Nominal Value | Unit | Test Method |
|-----------------------------------------------|-----------------|-------------------|-----------------|
| Specific Gravity | 1.40 | g/cm ³ | ASTM D792 |
| Apparent Density | 0.46 | g/cm ³ | |
| K-Value ¹ | 74.0 | | Internal method |
| Intrinsic Viscosity ² | 1.2 | | Internal method |
| Water content-Karl Fisher ³ | 0.040 | % | Internal method |
| Relative viscosity-Cyclohexanone 1% | 2.65 | | |
| Optimal stretching | 20.1 | MPa | ASTM D638 |
| Gloss ⁴ | | | Internal method |
| 60 degree fused 3 mins @ 390F | 92 | % | Internal method |
| 60 degree fused 5 mins @ 350F | 61 | % | Internal method |
| Transparency-light transmittance ⁵ | 94 | % | Internal method |
| Brokfield Viscosity ⁶ | | | Internal method |
| Initial @ 2 rpm | 5.98 | Pa · s | Internal method |
| Initial @ 20 rpm | 4.80 | Pa · s | Internal method |
| One Day @ 2 rpm | 6.40 | Pa · s | Internal method |
| One Day @ 20 rpm | 6.45 | Pa · s | Internal method |
| Cut off outflow ⁷ | 48.00 | g/10 min | Internal method |
| North fineness ⁸ | 3.25 | Hegman | Internal method |
| Residual Vinyl Chloride Monomer ⁹ | | ppm | Internal method |
| Methanol extractable ¹⁰ | 2.2 | % | Internal method |
| polymerization process | Microsuspension | | |
| Gel temperature ¹¹ | 65 | °C | Internal method |

| Additional Information | Nominal Value | Unit | Test Method |
|------------------------|---------------|------|-------------|
|------------------------|---------------|------|-------------|

Test Method Formulas"ALTC" and "ASTM" Ingredients and Level

Resin: 100 phr

DINP: 57 phr

ESO: 3 phr

Therm-Chek SP 120 LOHF: 2 phr

"STP" (all except Fog) Ingredients and Level

Resin: 100 phr

DOP: 60 phr

"STP" (Fog only) Ingredients and Level

Resin: 100 phr

DUP: 80 phr

| NOTE | |
|------|------------------|
| 1. | 0.5g/100ml |
| 2. | ASTM D 1243 60 A |
| 3. | STP 683 |
| 4. | ALTC 65 |
| 5. | ATLC 66 |
| 6. | ALTC 22 |
| 7. | STP 1010 |
| 8. | STP 390 |
| 9. | STP 1005 |
| 10. | STP 894 |
| 11. | ATLC 29 |

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