

Geon™ Vinyl Cellular E2507

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon E2507 is standard E2500 with additional blowing agent to achieve lower densities.

| General Information | | | |
|---|-----------------------------|-------------------|-------------|
| Uses | Building materials | | |
| Forms | Powder | | |
| | Honeycomb, inward foaming | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity ¹ | 0.549 - 0.748 | g/cm ³ | ASTM D792 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 85 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus ² | 3380 | MPa | ASTM D638 |
| Tensile Strength ³ (Yield) | 51.6 | MPa | ASTM D638 |
| Flexural Modulus | 3420 | MPa | ASTM D790 |
| Flexural Strength | 96.8 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact - Across Flow (23°C, 3.18 mm, Compression Molded) | 37 | J/m | ASTM D256A |
| Drop Impact Resistance ⁴ (23°C) | 10.2 | J/cm | ASTM D4226 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm) | 70.0 | °C | ASTM D648 |
| CLTE - Flow | 5.9E-5 | cm/cm/°C | ASTM D696 |
| Additional Information | | | |
| Physical properties were measured on non foamed profiles. | | | |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 177 - 191 | °C | |
| NOTE | | | |
| 1. | Cellular | | |
| 2. | Type 1, 5.1 mm/min | | |
| 3. | Type 1, 5.1 mm/min | | |
| 4. | Procedure A, C.125 Throwing | | |

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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



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