

# Geon™ Vinyl Dry Blend E7001

Rigid Polyvinyl Chloride

PolyOne Corporation

## Message:

Geon™ Vinyl Dry Blend E7001 is a rigid PVC product. It can be processed by extrusion or profile extrusion molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: outdoor applications.

Features include:

low gloss

Impact resistance

| General Information |                                        |
|---------------------|----------------------------------------|
| Features            | Gloss, low<br>Impact resistance, high  |
| Uses                | Outdoor application                    |
| Forms               | Powder                                 |
| Processing Method   | Extrusion<br>Profile extrusion molding |

| Physical                                                              | Nominal Value   | Unit              | Test Method |
|-----------------------------------------------------------------------|-----------------|-------------------|-------------|
| Specific Gravity                                                      | 1.42            | g/cm <sup>3</sup> | ASTM D792   |
| PVC Cell Classification                                               | 1-42433-43-0000 |                   | ASTM D4216  |
| PVC Cell Classification                                               | 15344           |                   | ASTM D1784  |
| Hardness                                                              | Nominal Value   | Unit              | Test Method |
| Durometer Hardness (Shore D)                                          | 79              |                   | ASTM D2240  |
| Mechanical                                                            | Nominal Value   | Unit              | Test Method |
| Tensile Modulus <sup>1</sup>                                          | 2620            | MPa               | ASTM D638   |
| Tensile Strength <sup>2</sup> (Yield)                                 | 43.6            | MPa               | ASTM D638   |
| Flexural Modulus                                                      | 2740            | MPa               | ASTM D790   |
| Flexural Strength                                                     | 79.3            | MPa               | ASTM D790   |
| Impact                                                                | Nominal Value   | Unit              | Test Method |
| Notched Izod Impact - Across Flow (23°C, 3.18 mm, Compression Molded) | 680             | J/m               | ASTM D256A  |
| Drop Impact Resistance                                                |                 |                   | ASTM D4226  |
| 23°C <sup>3</sup>                                                     | 66.7            | J/cm              | ASTM D4226  |
| 23°C <sup>4</sup>                                                     | 178             | J/cm              | ASTM D4226  |
| Thermal                                                               | Nominal Value   | Unit              | Test Method |
| Deflection Temperature Under Load                                     |                 |                   | ASTM D648   |
| 0.45 MPa, unannealed, 3.18mm                                          | 80.0            | °C                | ASTM D648   |
| 0.45 MPa, annealed, 3.18mm                                            | 81.1            | °C                | ASTM D648   |
| 1.8 MPa, unannealed, 3.18mm                                           | 73.9            | °C                | ASTM D648   |
| 1.8 MPa, annealed, 3.18mm                                             | 77.8            | °C                | ASTM D648   |

|                                                                               |                             |          |           |
|-------------------------------------------------------------------------------|-----------------------------|----------|-----------|
| CLTE - Flow                                                                   | 6.4E-5                      | cm/cm/°C | ASTM D696 |
| Additional Information                                                        |                             |          |           |
| 60度光泽比较: Geon E7001 为27-29;Geon E7456为40-49;Geon E713为38-43;Geon E7370为26-31. |                             |          |           |
| Extrusion                                                                     | Nominal Value               | Unit     |           |
| Melt Temperature                                                              | 193 - 204                   | °C       |           |
| NOTE                                                                          |                             |          |           |
| 1.                                                                            | Type 1, 5.1 mm/min          |          |           |
| 2.                                                                            | Type 1, 5.1 mm/min          |          |           |
| 3.                                                                            | Procedure A, C.125 Throwing |          |           |
| 4.                                                                            | Procedure B, C.125 Throwing |          |           |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### 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

