

# Geon™ Vinyl Dry Blend E7370

Rigid Polyvinyl Chloride

PolyOne Corporation

## Message:

Geon™ Vinyl Dry Blend E7370 is a Rigid Polyvinyl Chloride product. It can be processed by extrusion or profile extrusion and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Geon™ Vinyl Dry Blend E7370 include construction applications and outdoor applications.

Characteristics include:

Flame Rated

High Flow

Impact Resistant

| General Information   |                        |                   |             |
|---|------------------------|-------------------|-------------|
| Features  | High Flow              |                   |             |
|   | High Impact Resistance |                   |             |
| Uses  | Fencing & Decking      |                   |             |
|   | Outdoor Applications   |                   |             |
| Agency Ratings  | CSA A440-M90           |                   |             |
| Forms   | Powder                 |                   |             |
| Processing Method   | Extrusion              |                   |             |
|   | Profile Extrusion      |                   |             |
| Physical  | Nominal Value          | Unit              | Test Method |
| Specific Gravity  | 1.46                   | g/cm <sup>3</sup> | ASTM D792   |
| PVC Cell Classification   | 1-42444-43-0121        |                   | ASTM D4216  |
| Hardness  | Nominal Value          | Unit              | Test Method |
| Durometer Hardness (Shore D)  | 81                     |                   | ASTM D2240  |
| Mechanical  | Nominal Value          | Unit              | Test Method |
| Tensile Modulus <sup>1</sup>  | 3090                   | MPa               | ASTM D638   |
| Tensile Strength <sup>2</sup> (Yield)                                 | 44.8                   | MPa               | ASTM D638   |
| Flexural Modulus  | 2760                   | MPa               | ASTM D790   |
| Flexural Strength   | 83.4                   | MPa               | ASTM D790   |
| Impact  | Nominal Value          | Unit              | Test Method |
| Notched Izod Impact - Across Flow (23°C, 3.18 mm, Compression Molded) | 1100                   | J/m               | ASTM D256A  |
| Drop Impact Resistance  |                        |                   | ASTM D4226  |
| 0°C <sup>3</sup>  | 66.7                   | J/cm              |             |
| 23°C <sup>4</sup>   | 75.6                   | J/cm              |             |
| 23°C <sup>5</sup>   | 178                    | J/cm              |             |
| Thermal   | Nominal Value          | Unit              | Test Method |

|  |                         |          |             |
|--|-------------------------|----------|-------------|
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm) | 77.2                    | °C       | ASTM D648   |
| CLTE - Flow  | 6.6E-5                  | cm/cm/°C | ASTM D696   |
| Flammability   | Nominal Value           |          | Test Method |
| Flame Rating   | V-0                     |          | UL 94       |
| Additional Information   | Nominal Value           |          | Test Method |
| AAMA 303   | Pass                    |          | ASTM D4726  |
| Extrusion  | Nominal Value           | Unit     |             |
| Melt Temperature   | 193 to 204              | °C       |             |
| NOTE   |                         |          |             |
| 1.   | Type I, 5.1 mm/min      |          |             |
| 2.   | Type I, 5.1 mm/min      |          |             |
| 3.   | Procedure A, C.125 Dart |          |             |
| 4.   | Procedure A, C.125 Dart |          |             |
| 5.   | Procedure B, C.125 Dart |          |             |

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