

# Geon™ HTX LA550

Polyvinyl Chloride Alloy

PolyOne Corporation

## Message:

Geon HTX LA550 is a PVC Alloy suitable for darker colors and horizontal applications.

| General Information                                     |                          |                   |             |
|---------------------------------------------------------|--------------------------|-------------------|-------------|
| Features                                                | Highlight                |                   |             |
|                                                         | Good weather resistance  |                   |             |
|                                                         | Heat resistance, medium  |                   |             |
|                                                         | Medium impact resistance |                   |             |
| Uses                                                    | Outdoor application      |                   |             |
|                                                         | Tread rubber             |                   |             |
| Forms                                                   | Cube                     |                   |             |
| Processing Method                                       | Extrusion                |                   |             |
| Physical                                                | Nominal Value            | Unit              | Test Method |
| Specific Gravity                                        | 1.20                     | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                                                | Nominal Value            | Unit              | Test Method |
| Durometer Hardness (Shore D, 15 sec)                    | 81                       |                   | ASTM D2240  |
| Mechanical                                              | Nominal Value            | Unit              | Test Method |
| Tensile Modulus <sup>1</sup>                            | 2240                     | MPa               | ASTM D638   |
| Tensile Strength <sup>2</sup> (Yield)                   | 46.2                     | MPa               | ASTM D638   |
| Flexural Modulus                                        | 2280                     | MPa               | ASTM D790   |
| Flexural Strength                                       | 68.3                     | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value            | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm, Compression Molded) | 120                      | J/m               | ASTM D256A  |
| Drop Impact Resistance                                  |                          |                   | ASTM D4226  |
| 23°C <sup>3</sup>                                       | 49.4                     | 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, annealed, 3.18mm <sup>5</sup>                 | 84.4                     | °C                | ASTM D648   |
| 0.45 MPa, annealed, 3.18mm <sup>6</sup>                 | 83.9                     | °C                | ASTM D648   |
| 1.8 MPa, annealed, 3.18mm <sup>7</sup>                  | 75.6                     | °C                | ASTM D648   |
| 1.8 MPa, annealed, 3.18mm <sup>8</sup>                  | 77.2                     | °C                | ASTM D648   |
| CLTE - Flow                                             | 8.5E-5                   | cm/cm/°C          | ASTM D696   |
| Additional Information                                  |                          |                   |             |

Physical properties based on Geon HTX LA550 Brown 3566.

| 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 |
| 5. | Annealed at 50 deg.C        |
| 6. | Annealed at 60 deg.C        |
| 7. | Annealed at 50 deg.C        |
| 8. | Annealed at 60 deg.C        |

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