

## Technical Data Sheet : AdvyForm H0402

### High Density Polyethylene

#### Product Description

The polymer grade is a natural multi-modal, broad molecular weight high density polyethylene based compound designed for use in jacketing, conduit or wire insulation. Contains a robust additives package for thermal stabilisation.

This product meets the requirements of ASTM D3350. Cell Classification is PE-435406A.

Information regarding regulatory status, including supported, prohibited, or restricted applications, is provided in the **Product Regulatory Summary** and the **Safety Data Sheet (SDS)**.

#### General

|                      |                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Applications         | Wire & Cable                                                                                                                            |
| Market               | Industrial, Building & Construction; Wire & Cable                                                                                       |
| Attribute            | Good Electrical Properties; Good Thermal Stability; High Density; High Elongation; High ESCR (Environmental Stress Cracking Resistance) |
| Internal ref. number | 1Q180, BEN11197                                                                                                                         |
| Revision             | Version 1.1, June 2026                                                                                                                  |

#### Properties.

| Typical Properties                           | Nominal Value*     | Units             | Test Method   |
|----------------------------------------------|--------------------|-------------------|---------------|
| <b>Physical</b>                              |                    |                   |               |
| Melt Flow Rate                               |                    |                   |               |
| (190 °C/2.16 kg)                             | 0.3                | g/10 min          | ISO 1133-1    |
| (190 °C/5.0 kg)                              | 1.1                | g/10 min          | ISO 1133-1    |
| Density                                      | 0.95               | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                            |                    |                   |               |
| Tensile Modulus                              | 1000               | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield, (23 °C, 50 mm/min)  | 23                 | MPa               | ISO 527-1, -2 |
| Tensile Elongation at Break                  | 700                | %                 | ASTM D638     |
| <b>Environmental Stress Crack Resistance</b> | > 2000             | hr                | ASTM D1693    |
| <b>Hardness</b>                              |                    |                   |               |
| Shore Hardness, (Shore D)                    | 61                 | ISO 868           |               |
| <b>Thermal</b>                               |                    |                   |               |
| <b>Oxidation Induction Time, (210 °C)</b>    | > 30               | min               | ISO 11357-6   |
| Peak Melting Point                           | 130                | °C                | ISO 11357-3   |
| <b>Electrical</b>                            |                    |                   |               |
| Volume Resistivity                           | > 10 <sup>16</sup> | ohm*cm            | ASTM D257     |
| Dielectric Strength                          | 20                 | kV/mm             | IEC 60243-1   |
| <b>Additional Information</b>                |                    |                   |               |
| Moisture Content                             | < 0.03             | %                 | Velogy Method |

\*)These are typical property values not to be construed as specification limits.

### **Processing Techniques**

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

Recommended melt temperatures: 190 °C to 230 °C.

### **Company Information**

For further information regarding the Velogy, please visit <http://www.velogy.com>

© Rotterdam Olefins & Polyolefins B.V.

### **Disclaimer**

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, Velogy may further prohibit or restrict the sale of its products into certain applications.

For further information, please contact [RegulatoryComplianceROP@velogy.com](mailto:RegulatoryComplianceROP@velogy.com)