

## Technical Data Sheet : AdvyForm H0200

### High Density Polyethylene

#### Product Description

The polymer grade is a high density polyethylene with an excellent combination of stiffness and ESCR and a good impact resistance. It is delivered in pellet form and contains antioxidants. Typical customer applications include jerry cans for the packaging of dangerous goods and light weight jerry cans.

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

#### General

|                      |                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------|
| Application          | Industrial Packaging; Jerry Cans                                                                         |
| Market               | Industrial Packaging                                                                                     |
| Processing Method    | Extrusion Blow Molding                                                                                   |
| Attribute            | Antioxidant; Good Impact Resistance; High ESCR (Environmental Stress Cracking Resistance); High Rigidity |
| Internal ref. number | 1Q111, BEN7768                                                                                           |
| Revision             | Version 2 : June 2026                                                                                    |

#### Properties.

| Typical Properties                      | Nominal Value* | Units             | Test Method   |
|-----------------------------------------|----------------|-------------------|---------------|
| <b>Physical</b>                         |                |                   |               |
| Melt Flow Rate                          |                |                   |               |
| (190 °C/5.0 kg)                         | 0.45           | g/10 min          | ISO 1133-1    |
| (190 °C/21.6 kg)                        | 9.5            | g/10 min          | ISO 1133-1    |
| Density                                 | 0.954          | g/cm <sup>3</sup> | ISO 1183-1    |
| Bulk Density                            | >0.500         | g/cm <sup>3</sup> | ISO 60        |
| Intrinsic Viscosity                     | 300            | ml/g              | ISO 1628-3    |
| <b>Mechanical</b>                       |                |                   |               |
| Tensile Modulus                         | 1250           | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                 | 27             | MPa               | ISO 527-1, -2 |
| Tensile Strain at Yield                 | 10             | %                 | ISO 527-1, -2 |
| FNCT, (6.0 MPa, 6.6% Dehyton PL, 50 °C) | 180            | hr                | ISO 16770     |
| <b>Impact</b>                           |                |                   |               |
| Tensile Impact Strength                 | 90             | kJ/m <sup>2</sup> | ISO 8256      |
| Note: notched, type 1, method A, -30 °C |                |                   |               |
| <b>Hardness</b>                         |                |                   |               |
| Shore Hardness, (Shore D)               | 62             |                   | ISO 868       |
| Ball Indentation Hardness, (H 132/30)   | 51             | MPa               | ISO 2039-1    |
| <b>Thermal</b>                          |                |                   |               |
| Vicat Softening Temperature, (B50)      | 80             | °C                | ISO 306       |
| <b>Processing Parameters</b>            |                |                   |               |

Melt Temperature 180 - 200 °C

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\*)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.

In cases where higher temperatures are required, please contact your appropriate technical contact for support.

#### **Company Information**

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

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