

## Technical Data Sheet : AdvyForm E0970

### Polypropylene, Impact Copolymer

#### Product Description

The grade is a polypropylene impact copolymer with medium melt flow rate, suitable for compression and injection molding processes. Exhibits a good stiffness, impact strength balance, high stress cracking resistance and low stress whitening behavior. The grade is nucleated, for faster crystallization rate and increased productivity. It contains both slip and antistatic additives, for easier demolding and low coefficient of friction. Is typically used in caps and closures, other typical applications are in the field of housewares, toys and rigid packaging.

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          | Caps & Closures; Housewares; Sports, Leisure & Toys                                  |
| Market               | Consumer Products; Rigid Packaging                                                   |
| Processing Method    | Compression Molding; Injection Molding                                               |
| Attribute            | Impact Copolymer; Medium Impact Resistance; Medium Slip; Medium Stiffness; Nucleated |
| Internal ref. number | 1Q078, BEN8496                                                                       |
| Revision             | Version 1.2 : June 2026                                                              |

#### Properties.

| Typical Properties                                    | Nominal Value <sup>*)</sup> | Units             | Test Method   |
|-------------------------------------------------------|-----------------------------|-------------------|---------------|
| <b>Physical</b>                                       |                             |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                      | 6                           | g/10 min          | ISO 1133-1    |
| Density, (23 °C)                                      | 0.9                         | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                     |                             |                   |               |
| Tensile Modulus                                       | 1500                        | MPa               | ISO 527-1, -2 |
| Tensile Stress at Yield                               | 30                          | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break                               | >50                         | %                 | ISO 527-1, -2 |
| Tensile Strain at Yield                               | 7                           | %                 | ISO 527-1, -2 |
| <b>Impact</b>                                         |                             |                   |               |
| Charpy Impact Strength - Notched                      |                             |                   |               |
| (23 °C, Type 1, Edgewise, Notch A)                    | 8.5                         | kJ/m <sup>2</sup> | ISO 179       |
| (0 °C, Type 1, Edgewise, Notch A)                     | 4.5                         | kJ/m <sup>2</sup> | ISO 179       |
| (-20 °C, Type 1, Edgewise, Notch A)                   | 3.5                         | kJ/m <sup>2</sup> | ISO 179       |
| <b>Hardness</b>                                       |                             |                   |               |
| Ball Indentation Hardness, (H 358/30)                 | 64                          | MPa               | ISO 2039-1    |
| <b>Thermal</b>                                        |                             |                   |               |
| Vicat Softening Temperature, (A50)                    | 151                         | °C                | ISO 306       |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 100                         | °C                | ISO 75B-1, -2 |

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

### **Processing Techniques**

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

#### **Company Information**

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

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