**Rotterdam Olefins & Polyolefins B.V.**
Aert van Nesstraat 45, 3012 CA
Rotterdam, The Netherlands

# Technical Data Sheet : AdvyForm R1740

## Polypropylene, Random Copolymer

### Product Description

The polymer grade is a clarified random copolymer for injection moulding with antistatic additivation and exhibits high fluidity in combination with a good transparency and gloss performance.
Typically used housewares and in food packaging. Its high fluidity allows short processing cycle times, and moulding of very thin wall items with a complex geometry.

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 | Clear Containers; Housewares; Sports, Leisure & Toys |
| Market | Consumer Products; Rigid Packaging |
| Processing Method | Injection Molding |
| Attribute | Contains Antistatic; High Flow; High Transparency; Nucleated; Random Copolymer |
| Internal ref. number | 1Q231, BEN16289 |
| Revision | Version 1.1, June 2026 |

### Properties.

| Typical Properties | Nominal Value* | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 75 | g/10 min | ISO 1133-1 |
| Density, (23 °C) | 0.9 | g/cm$^3$ | ISO 1183-1 |
| **Mechanical** | | | |
| Tensile Modulus | 1100 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 28 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | >50 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 13 | % | ISO 527-1, -2 |
| **Impact** | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 4.5 | kJ/m$^2$ | ISO 179 |
| (0 °C, Type 1, Edgewise, Notch A) | 1.5 | kJ/m$^2$ | ISO 179 |
| **Thermal** | | | |
| Vicat Softening Temperature, (A50) | 130 | °C | ISO 306 |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 80 | °C | ISO 75B-1, -2 |
| **Optical** | | | |
| Haze, (1 mm - injection molded disc) | 11 | % | ASTM D1003 |

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

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## 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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