Velogy.
Aert van Nesstraat 45,
3012 CA Rotterdam, The Netherlands

Technical Data Sheet : AdvyForm H0502

High Density Polyethylene

Product Description

The polymer grade is a high density polyethylene resin having medium molar mass and special narrow molar mass distribution for production of films. It can be processed on blown film lines at high output rates with excellent bubble stability, good processability and low gels level. It can be used to produce oriented films such as Machine Direction Oriented PE films.

Detailed information on health and safety, regulatory compliance status, and any supported, prohibited, or restricted applications is available in the Product Regulatory Summary (PRS) and the applicable Safety Data Sheet (SDS).

General

Application	Standup Pouches; Bags & Pouches; Food Packaging Film; Heavy Duty Packaging; Lamination Film; Products for Use in Property Modification
Market	Flexible Packaging
Processing Method	Blown Film
Attribute	Antioxidant; Good Drawdown; Good Toughness; High Rigidity; Low Gel
Internal reference	1Q365, BEN13383
Revision	Version 1: October 8, 2026

Properties	Typical Value	Unit	Method
Polymer properties			
Density	0.946	g/cm^3	ISO 1183-1
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.5	g/10 min (dg/min)	ISO 1133-1
at 190 °C and 5.0 kg	1.6	g/10 min (dg/min)	ISO 1133-1
Mechanical properties			
Tensile test			
Tensile Modulus	900	MPa	ISO 527-1, -2
Stress at Yield	23	MPa	ISO 527-1, -2
Thermal properties			
Differential scanning calorimetry (DSC)			
Peak Melting Point	130	°C	ISO 11357-3
Vicat Softening Temperature			
(B/50)	75	°C	ISO 306
Processing Parameters			
Extrusion Temperature	180-230	°C	

Storage and Handling

The polymer grade is supplied in 25 kg bags, octabins, or bulk containers designed to protect the material from contamination. During storage, the resin should be protected from direct sunlight, temperatures above (<50 °C), and high atmospheric humidity. Prolonged exposure to sunlight, elevated temperatures, or high humidity may accelerate material degradation, reduce storage life, and adversely affect the quality of both the resin and its packaging. If the material is stored under conditions involving significant temperature fluctuations and high humidity, moisture may condense inside the packaging. In such cases, it is recommended to dry the resin before use and to ensure that the material remains completely dry to achieve optimal processing performance. Unfavorable storage conditions may also intensify the resin's slight characteristic odor.

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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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