

Technical Data Sheet : AdvyForm H0880

High Density Polyethylene

Product Description

The grade is a state of the art HDPE resin, easy processable on injection molding and compression molding equipment. A good balance of stiffness, toughness and environmental stress cracking resistance make the product, the choice of customers for the production of closures for sparkling water, CSD and many other types of food and nonfood caps and closures as well as tube shoulders. Formulated with an additive package used by customers for an optimized combination of organoleptic properties and opening torque.

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; Collapsible Tubes
Market	Consumer Products; Rigid Packaging
Processing Method	Compression Molding; Injection Molding
Attribute	Good ESCR (Environmental Stress Cracking Resistance); Good Organoleptic Properties; Good Toughness; High Density
Internal ref. number	1Q174, BEN13386
Revision	Version 1.2, June 2026

Properties.

Typical Properties	Value ^{*)}	Nominal Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/2.16 kg)	2.1	g/10 min	ISO 1133-1
(190 °C/5.0 kg)	6.3	g/10 min	ISO 1133-1
Density	0.953	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1150	MPa	ISO 527-1, -2
Tensile Stress at Yield	30	MPa	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
FNCT, (6.0 MPa, 6.6% Dehyton PL, 50 °C)	4	hr	ISO 16770
Impact			
Charpy Impact Strength - Notched			
(23 °C)	7	kJ/m ²	ISO 179
(-30 °C)	5	kJ/m ²	ISO 179
Hardness			
Shore Hardness, (Shore D)	62		ISO 868
Ball Indentation Hardness	51	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (B50)	75	°C	ISO 306

^{*)} 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 - 230 °C

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>

© 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