

Technical Data Sheet : AdvyForm H0402

High Density Polyethylene

Product Description

The polymer grade is a natural multi-modal, broad molecular weight high density polyethylene based compound designed for use in jacketing, conduit or wire insulation. Contains a robust additives package for thermal stabilisation.

This product meets the requirements of ASTM D3350. Cell Classification is PE-435406A.

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

General

Applications	Wire & Cable
Market	Industrial, Building & Construction; Wire & Cable
Attribute	Good Electrical Properties; Good Thermal Stability; High Density; High Elongation; High ESCR (Environmental Stress Cracking Resistance)
Internal ref. number	1Q180, BEN11197
Revision	Version 2 ; September 3, 2026

Properties.

Typical Properties	Nominal Value*	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/2.16 kg)	0.3	g/10 min	ISO 1133-1
(190 °C/5.0 kg)	1.1	g/10 min	ISO 1133-1
Density	0.95	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1000	MPa	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	23	MPa	ISO 527-1, -2
Tensile Elongation at Break	700	%	ASTM D638
Environmental Stress Crack Resistance	> 2000	hr	ASTM D1693
Hardness			
Shore Hardness, (Shore D)	61	ISO 868	
Thermal			
Oxidation Induction Time, (210 °C)	> 30	min	ISO 11357-6
Peak Melting Point	130	°C	ISO 11357-3
Electrical			
Volume Resistivity	> 10E16	ohm*cm	ASTM D257
Dielectric Strength	20	kV/mm	IEC 60243-1
Additional Information			
Moisture Content	< 0.03	%	LYB Method

*)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 °C to 230 °C.

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

Trademarks

The Trademark referenced within the product name is owned or used by the Velogy group of companies