

Technical Data Sheet : AdvyForm H0260

High Density Polyethylene

Product Description

The grade is a high density polyethylene (HDPE) with high melt viscosity for extrusion. The grade provides excellent stress crack resistance properties (ESCR) combined with very good long term hydrostatic strength, high heat- and extremely high extraction stability. Fulfills the requirements of DIN 16833 / ISO 24033 for PE-RT Type II.

The product can be classified as PE100 in accordance with ISO 12162, based on ISO 9080 evaluation. Typical customer applications are underfloor heating and multilayer pipes for heating and plumbing. Additional application is ducting of high voltage cables, where good long term heat aging stability for 50 years at 70°C is required.

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	Drinking Water Pipe; Plumbing, Heating & Cooling
Market	Pipe
Processing Method	Pipe; Sheet
Attribute	Extraction Resistant; Good Chemical Resistance; Good Creep Resistance; Good ESCR (Environmental Stress Cracking Resistance); Good Heat Aging Resistance; Good Organoleptic Properties; Weldable
Internal ref. number	1Q116, BEN7760
Revision	Version 2 ; September 3, 2026

Properties.

Typical Properties	Nominal Value*	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/5.0 kg)	0.45	g/10 min	ISO 1133-1
(190 °C/21.6 kg)	9.5	g/10 min	ISO 1133-1
Density	0.947	g/cm ³	ISO 1183-1
Mechanical			
Flexural Creep Modulus, (4-point loading / 50 years extrapolated)	165	MPa	DIN 16841
Tensile Modulus, (23 °C)	850	MPa	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	22	MPa	ISO 527-1, -2
Tensile Strain at Break, (23 °C)	650	%	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	8	%	ISO 527-1, -2
MRS Classification	10	MPa	ISO 9080
FNCT, (4.0 MPa, 2% Arkopal N100, 80 °C)	>= 350	hr	ISO 16770
Impact			
Charpy Impact Strength - Notched			
(23 °C)	24	kJ/m ²	ISO 179-1/1eA

	(-30 °C)	8	kJ/m ²	ISO 179-1/1eA
Hardness				
	Shore Hardness, (Shore D, 3 sec)	59		ISO 868
Thermal				
	Vicat Softening Temperature			
	(A50)	120	°C	ISO 306
	(B50)	70	°C	ISO 306
	Oxidation Induction Time, (210 °C)	40	min	ISO 11357-6
	Thermal Conductivity, (23 °C)	0.42	W/m*K	EN ISO 22007-2
	Coefficient of Linear Thermal Expansion (CLTE) Average value (20°C - 70°C)	1.85 * 10 ⁻⁴	1/°C	ISO 11359-1, -2
Electrical				
	Surface Resistivity	> 10 ¹³	ohm	IEC 60093

*)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 met 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>

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