

Technical Data Sheet : KeyForm H0600

High Density Polyethylene

Product Description

The grade is a high density polyethylene resin originally developed for small blow molding applications. It is used in the production of corrugated gravity pipes that are used for applications such as agricultural land drainage and telecommunication ducts. It exhibits a very good combination of high stiffness and high stress cracking resistance. The grade is delivered in pellet form, demonstrates good organoleptic properties, contains antioxidants and has a broad molecular weight distribution.

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	Conduit; Corrugated Pipe; Drainage Pipe; Sewer Pipe
Market	Agriculture; Industrial, Building & Construction; Pipe
Processing Method	Pipe Extrusion
Attribute	Antioxidant; High Tensile Strength; Medium Stiffness
Internal ref. number	1Q268, BEN44029
Revision	Version 1.2 ; June 2026

Properties.

Typical Properties	Nominal Value ^{*)}	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/2.16 kg)	0.7	g/10 min	ISO 1133-1
(190 °C/5.0 kg)	2.4	g/10 min	ISO 1133-1
(190 °C/21.6 kg)	36	g/10 min	ISO 1133-1
Density	0.956	g/cm ³	ISO 1183-1
Bulk Density	>0.500	g/cm ³	ISO 60
Mechanical			
Tensile Modulus	1200	MPa	ISO 527-1, -2
Tensile Stress at Yield	28	MPa	ISO 527-1, -2
Tensile Strain at Yield	9	%	ISO 527-1, -2
FNCT, (6.0 MPa, 2% Arkopal N100, 50 °C)	20	hr	ISO 16770
Impact			
Charpy Impact Strength - Notched, (-30 °C)	6.2	kJ/m ²	ISO 179-1/1eA
Hardness			
Shore Hardness, (Shore D)	64		ISO 868
Ball Indentation Hardness, (H 132/30)	60	MPa	ISO 2039-1
Processing Parameters			
Melt Temperature	180 - 210	°C	

^{*)} 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.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the Velogy, please visit <http://www.velogy.com>

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