

Technical Data Sheet : KeyForm H0100

High Density Polyethylene

Product Description

The grade is a high density polyethylene with an excellent combination of stiffness and ESCR and a high impact resistance. It is delivered in pellet form and contains antioxidants. Typical customer applications include L-ring drums for the packaging of dangerous goods

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	Drums; Industrial Packaging
Market	Industrial Packaging
Processing Method	Extrusion Blow Molding
Attribute	Antioxidant; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance; High Rigidity
Internal ref. number	1Q131, BEN7688
Revision	Version 1.1 ; June 2026

Properties.

Typical Properties	Nominal Value*)	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/21.6 kg)	2.6	g/10 min	ISO 1133-1
Density	0.954	g/cm ³	ISO 1183-1
Bulk Density	>0.500	g/cm ³	ISO 60
Viscosity Number	500	mL/g	ISO 1628-3
Mechanical			
Tensile Modulus	1200	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	MPa	ISO 527-1, -2
Tensile Strain at Yield	8	%	ISO 527-1, -2
FNCT			
(6.0 MPa, 2% Arkopal N100, 50 °C)	35	hr	ISO 16770
(6.0 MPa, 6.6% Dehyton PL, 50 °C)	35	hr	ISO 16770
Impact			
Charpy Impact Strength - Notched, (-30 °C, Type 1, Edgewise, Notch A)	80	kJ/m ²	ISO 179
Tensile Impact Strength (notched, type 1, method A, -30 °C)	290	kJ/m ²	ISO 8256
Processing Parameters			
Melt Temperature	180 - 220	°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.

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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