

Technical Data Sheet : KeyForm H1100

High Density Polyethylene

Product Description

The grade is a high density polyethylene resin used in general injection molding applications such as pallets and dust bins. Is available in pellet form, and exhibits high ESCR, good impact resistance, flowability and low warpage

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; Crates; Housewares; Industrial; Panels & Profiles; Sports, Leisure & Toys
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Antioxidant; Good Flow; Good Processability; High Density; High Impact Resistance; High Rigidity; Low Warpage
Internal ref. number	1Q003, BEN7800
Revision	Version 1.1 ; June 2026

Properties.

		Nominal		
		Value	Units	
Physical				
		Melt Flow Rate		
(190 °C/2.16 kg)		4	g/10 min	ISO 1133-1
(190 °C/5.0 kg)		11	g/10 min	ISO 1133-1
Density		0.955	g/cm ³	ISO 1183-1
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)		4.5	hr	ISO 16770
Impact				
Charpy Impact Strength - Notched				
(23 °C, Type 1, Edgewise, Notch A)		4	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)		4.5	kJ/m ²	ISO 179
Hardness				
Shore Hardness, (Shore D)		60		ISO 868
Ball Indentation Hardness, (H 132/30)		52	MPa	ISO 2039-1
Thermal				
Vicat Softening Temperature, (B50)		73	°C	ISO 306
Processing Parameters				
Melt Temperature		180 - 250	°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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