

Technical Data Sheet : KeyForm H1280

High Density Polyethylene

Product Description

The grade is a high density polyethylene resin stabilized to prevent UV degradation. In addition to general injection molding applications such as toys, it is widely used in dust bin lids, crates, housewares and packaging. Demonstrates good flowability and high rigidity and has been extensively used by customers in injection molding and other conversion processes

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	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 Rigidity; Low Warpage; UV Resistant
Internal ref. number	1Q092, BEN7797
Revision	Version 1.2 ; June 2026

Properties.

Typical Properties		Nominal Value*	Units	Test Method
Physical				
Melt Flow Rate				
	(190 °C/2.16 kg)	8	g/10 min	ISO 1133-1
	(190 °C/5.0 kg)	23	g/10 min	ISO 1133-1
	Density	0.96	g/cm ³	ISO 1183-1
Mechanical				
	Tensile Modulus	1450	MPa	ISO 527-1, -2
	Tensile Stress at Yield	30	MPa	ISO 527-1, -2
	Tensile Strain at Yield	7	%	ISO 527-1, -2
	FNCT, (6.0 MPa, 2% Arkopal N100, 50 °C)	2.5	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)	61		ISO 868
	Ball Indentation Hardness, (H 132/30)	58	MPa	ISO 2039-1
Thermal				
	Vicat Softening Temperature, (B50)	74	°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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