Rotterdam Olefins & Polyolefins B.V.
Aert van Nesstraat 45, 3012 CA
Rotterdam, The Netherlands

Technical Data Sheet : KeyForm H1180

High Density Polyethylene

Product Description

The grade is a high density polyethylene resin stabilized to prevent UV degradation. It's used in general injection molding applications such as pallets and dust bin bodies. 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	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; UV Resistant
Internal ref. number	1Q005, BEN7801
Revision	Version 1.1, June 2026

Properties.

	Nominal Value	Units	
Physical			
Melt Flow Rate			
Melt Flow Rate	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.

Rotterdam Olefins & Polyolefins B.V.
Aert van Nesstraat 45, 3012 CA
Rotterdam, The Netherlands

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

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, Velogy may further prohibit or restrict the sale of its products into certain applications.
For further information, please contact RegulatoryComplianceROP@velogy.com