

Technical Data Sheet : KeyForm E1840

Polypropylene, Impact Copolymer

Product Description

The polymer grade is a nucleated heterophasic copolymer with antistatic additivition used for injection molding applications. It exhibits an outstanding balance of mechanical properties combined with a high fluidity. Extensively used in housewares and in thin-walled containers for food packaging (e.g. margarine tubs, yoghurt pots, etc.).

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	Housewares; Opaque Containers; Sports, Leisure & Toys
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Contains Antistat; Good Organoleptic Properties; Good Processability; High Flow; High Rigidity; High Stiffness; Impact Copolymer; Nucleated
Internal ref. number	1Q051, BEN8529
Revision	Version 1.1 : June 2026

Properties.

Typical Properties	Nominal Value*	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	100	g/10 min	ISO 1133-1
Density, (23 °C)	0.9	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1450	MPa	ISO 527-1, -2
Tensile Stress at Yield	28	MPa	ISO 527-1, -2
Tensile Strain at Break	10	%	ISO 527-1, -2
Tensile Strain at Yield	5	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	4	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	2.5	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	2	kJ/m ²	ISO 179
Ductile/Brittle Transition Temperature	-45	°C	ISO 6603-2
Thermal			
Vicat Softening Temperature, (A/50)	152	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2

*)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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