

Technical Data Sheet : KeyForm E1640

Polypropylene, Impact Copolymer

Product Description

The polymer grade is a heterophasic copolymer used in injection molding. This grade is characterized by a high flow, medium stiffness combined with a Nucleation and an antistatic addition. Typically used by customers in thin walled packaging, margarine tubs and housewares.

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; Housewares; Opaque Containers
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Contains Antistat; Good Impact Resistance; Good Stiffness; High Flow; Impact Copolymer; Nucleated
Internal reference number	1Q035, BEN8525
Revision	Version 1.1 : June 2026

Properties.

Typical Properties	Nominal Value	Units	
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	48	g/10 min	ISO 1133-1
Density	0.9	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1350	MPa	ISO 527-1, -2
Tensile Stress at Yield	29	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	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
Thermal			
Vicat Softening Temperature, (A50)	152	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	98	°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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