

Technical Data Sheet : KeyForm E1030

Polypropylene, Impact Copolymer

Product Description

The grade is a nucleated heterophasic copolymer, used in injection molding applications. Features a high impact performance with good stiffness. Typically used by customers in housewares, toys, luggage, transport and cold storage crates and consumer components subjected to low temperatures. The resin is also used as base material in technical compounding.

Is UL listed under file E31765

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; Luggage; Sports, Leisure & Toys
Market	Consumer Products
Processing Method	Injection Molding
Attribute	Good Processability; High Impact Resistance; Impact Copolymer; Medium Stiffness; Nucleated
Internal ref. number	1Q038, BEN8476
Revision	Version 1.1 ; June 2026

Properties.

Typical Properties		Nominal Value*	Units	Test Method
Physical				
	Melt Flow Rate, (230 °C/2.16 kg)	7.5	g/10 min	ISO 1133-1
Density		0.9	g/cm ³	ISO 1183-1
Mechanical				
	Tensile Modulus	1050	MPa	ISO 527-1, -2
	Tensile Stress at Yield	21	MPa	ISO 527-1, -2
	Tensile Strain at Break	>50	%	ISO 527-1, -2
	Tensile Strain at Yield	6	%	ISO 527-1, -2
Impact				
	Charpy Impact Strength - Notched			
	(23 °C, Type 1, Edgewise, Notch A)	45	kJ/m ²	ISO 179
	(0 °C, Type 1, Edgewise, Notch A)	9	kJ/m ²	ISO 179
	(-20 °C, Type 1, Edgewise, Notch A)	7	kJ/m ²	ISO 179
	Ductile/Brittle Transition Temperature	-55	°C	ISO 6603-2
Hardness				
	Ball Indentation Hardness	46	MPa	ISO 2039-1
Thermal				
	Vicat Softening Temperature, (A50)	144	°C	ISO 306
	Deflection Temperature Under Load, (0.45 MPa, Unannealed)	80	°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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