

Technical Data Sheet : KeyForm E1641

Polypropylene, Impact Copolymer

Product Description

The grade is a nucleated heterophasic copolymer with antistatic additivation used in injection molding applications. Has a high flow, good impact/stiffness balance and is typically used by customers in opaque containers, housewares, toys and closures.

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; Sports, Leisure & Toys
Market	Consumer Products; Rigid Packaging
Processing Method	Compression Molding; Injection Molding
Attribute	Impact Copolymer; Medium Impact Resistance; Medium Slip; Medium Stiffness; Nucleated
Internal reference number	1Q122, BEN7994
Revision	Version 1.1; June 2026

Properties.

Typical Properties	Nominal		Test Method
	Value ^{*)}	Units	
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	48	g/10 min	ISO 1133-1
Density, (23 °C)	0.9	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1250	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	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)	5	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	3.5	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	2.5	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature, (A50)	151	°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

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the Velogy, please visit <http://www.velogy.com>

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