

Technical Data Sheet : KeyForm P1640

Polypropylene, Homopolymer

Product Description

The polymer grade is a homopolymer used in injection molding. This grade is characterized by a high flow, medium stiffness combined with a Nucleation and an antistatic additivition. Typically used by customers in houseware, TWIM food and Non-food containers.

Information regarding regulatory status, including supported, prohibited, or restricted applications, is provided in the **Product Regulatory Summary** and the **Safety Data Sheet (SDS)**.

General

Applications	Caps & Closures; Housewares; TWIM Food Containers; TWIM Non-food Containers
Market	Rigid Packaging
Processing Method	Injection Molding
Attribute	Contains Antistat; Good Stiffness; High Flow; Nucleated
Internal ref. number	1Q048, BEN8697
Revision	Version 1.1 : June 2026

Properties.

Typical Properties	Nominal Value*	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	53	g/10 min	ISO 1133-1
Density, (23 °C)	0.9	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1600	MPa	ISO 527-1, -2
Tensile Stress at Yield	35	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	8	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	2	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature, (A50)	154	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	95	°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.



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