

Technical Data Sheet : KeyForm L0851

Low density, Polyethylene

Product Description

The polymer grade is an additivated, low density polyethylene. It contains slip agent. It is characterized by a good balance between processability and mechanical properties. Films produced from the grade exhibit a glossy surface finish with very good optical properties.

It is delivered in pellet form.

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	Bags & Pouches; Food Packaging Film; Lamination Film; Shrink Film
Market	Flexible Packaging
Processing Method	Blown Film
Attribute	Good Heat Seal; Good Processability; Low Friction; Superior Optical Properties; Unspecified Slip
Internal ref. number	1Q016, BEN8240
Revision	Version 1.3 : August 2026

Properties.

Typical Properties		Nominal Value*	Units	Test Method
Physical				
	Melt Flow Rate, (230 °C/2.16 kg)	2	g/10 min	ISO 1133-1
	Density, (23 °C)	0.928	g/cm ³	ISO 1183-1
Mechanical				
	Tensile Modulus	300	MPa	ISO 527-1, -2
	Tensile Stress at Yield	13	MPa	ISO 527-1, -2
Film				
	Dart Drop Impact Strength, F50	110	g	ASTM D1709
	Tensile Strength			
	MD	25	MPa	ISO 527-1, -3
	TD	18	MPa	ISO 527-1, -3
	Tensile Strain at Break			
	MD	350	%	ISO 527-1, -3
	TD	600	%	ISO 527-1, -3
	Coefficient of Friction	<0.2		ISO 8295
Impact				
	Failure Energy	4 J/mm	J/mm	DIN 53373
Thermal				
	Vicat Softening Temperature, (A/50)	100 °C	°C	ISO 306
	Peak Melting Point	114 °C	°C	ISO 3146
Optical				

	Haze, (50 µm)	<7	%	ASTM D1003
Gloss				
	(20°)	>70		ASTM D2457
	(60°)	>110		ASTM D2457
Additive				
	Slip, Erucamide	500	ppm	Velogy Method
Additional Information				
	Test Specimen	Film		
Film properties tested using 50 Njm thickness blown film extruded at a melt temperature of 170°C and a blow-up ratio of 2.5:1.				
Processing Parameters				
	Extrusion Temperature	160-200	°C	

*)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.

Company Information

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