

Technical Data Sheet : KeyForm L1100

Low Density Polyethylene

Product Description

The polymer grade is a non-additivated, low density polyethylene. It is characterized by a good processability. Films made exhibit 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	Coatings, Protective; Food Packaging Film; Hygiene Film; Shrink Film; Surface Protection Film
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film; Extrusion Coating; Injection Molding
Attribute	Good Heat Seal; Good Optical Properties; Good Processability
Internal ref. number	1Q009, BEN8217
Revision	Version 2: June 2026

Properties.

Typical Properties	Nominal Value*	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	4	g/10 min	ISO 1133-1
Density	0.924	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	260	MPa	ISO 527-1, -2
Tensile Stress at Yield	11	MPa	ISO 527-1, -2
Film			
Dart Drop Impact Strength, F50	100	g	ASTM D1709
Tensile Strength	MD	22	MPa
	TD	17	MPa
Tensile Strain at Break	MD	300	%
	TD	600	%
Coefficient of Friction	>0.7		ISO 8295
Impact			
Failure Energy	3.5	J/mm	DIN 53373
Thermal			
Vicat Softening Temperature, (A/50)	92	°C	ISO 306
Peak Melting Point	111	°C	ISO 11357-3
Optical			
Haze, (50 µm)	<8	%	ASTM D1003

Gloss			
	(20°)	>60	ASTM D2457
	(60°)	>105	ASTM D2457
Additional Information			
	Test Specimen	Film	
Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 170°C and a blow-up ratio of 2.5:1.			
Processing Parameters			
	Extrusion Temperature (Blown Film Extrusion)	150-190	°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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