

Technical Data Sheet : KeyForm L1101

Low Density Polyethylene

Product Description

The grade is a non-additivated, low density polyethylene. It is characterized by a good processability. Customers report that films made from KeyForm L1101 exhibit a glossy surface finish, and provides the option to produce films 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

Application	Bags & Pouches; Food Packaging Film; Lamination Film; Shrink Film; Surface Protection Film
Market	Flexible Packaging
Processing Method	Blown Film
Attribute	Good Heat Seal; Good Processability; Superior Optical Properties
Internal ref. number	1Q014, BEN8236
Revision	Version 1.1 ; June 2026

Properties.

		Nominal		Test Method
		Value	Units	
Physical				
Melt Flow Rate, (190 °C/2.16 kg)		4	g/10 min	ISO 1133-1
Density		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		90	g	ASTM D1709
Tensile Strength				
MD		20	MPa	ISO 527-1, -3
TD		17	MPa	ISO 527-1, -3
Tensile Strain at Break				
MD		350	%	ISO 527-1, -3
TD		600	%	ISO 527-1, -3
Coefficient of Friction		>0.8		ISO 8295
Impact				
Failure Energy (Film thickness: 70 µm)		3.5	J/mm	DIN 53373
Thermal				
Vicat Softening Temperature, (A/50)		97	°C	ISO 306
Peak Melting Point		114	°C	ISO 11357-3
Optical				
Haze, (50 µm)		<7	%	ASTM D1003
Gloss				

	(20°)	>80	ASTM D2457
	(60°)	>115	ASTM D2457
Additional Information			
	Test Specimen	Film	
Film properties tested using 50 um thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 2.5:1.			
Processing Parameters			
	Extrusion Temperature	15-190	°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.

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>

© Rotterdam Olefins & Polyolefins B.V.

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, Velogy may further prohibit or restrict the sale of its products into certain applications.

For further information, please contact RegulatoryComplianceROP@velogy.com