

Technical Data Sheet : KeyForm L0850

Low Density Polyethylene

Product Description

The grade is an additivated, low density polyethylene. It contains slip and anti-blocking agent. It is characterized by a good balance between processability and mechanical properties. Films made from the grade 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

Application	Bags & Pouches; Food Packaging Film; Hygiene Film; Liner Film; Shrink Film
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film
Attribute	Good Heat Seal; Good Optical Properties; Good Processability; Low Friction; Unspecified Antiblocking; Unspecified Slip
Internal ref. number	1Q001, BEN8224
Revision	Version 1.2 ; June 1, 2026

Properties.

		Nominal		Test Method
		Value	Units	
Physical				
Melt Flow Rate, (190 °C/2.16 kg)		1.9	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		110	g	ASTM D1709
Tensile Strength				
MD		25	MPa	ISO 527-1, -3
TD		21	MPa	ISO 527-1, -3
Tensile Strain at Break				
MD		250	%	ISO 527-1, -3
TD		600	%	ISO 527-1, -3
Coefficient of Friction		<0.2		ISO 8295
Impact				
Failure Energy (Film thickness: 70 µm)		4	J/mm	DIN 53373
Thermal				
Vicat Softening Temperature, (A/50)		94	°C	ISO 306
Peak Melting Point		111	°C	ISO 11357-3
Optical				
Haze, (50 µm)		<8	%	ASTM D1003
Gloss				

	(20°)	>50	ASTM D2457
	(60°)	>100	ASTM D2457
Additives			
	Slip, Erucamide	500 ppm	Internal Method
	Anti-block, Natural Silica	1000 ppm	ISO 3451-1
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	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.

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>
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