

Technical Data Sheet : KeyForm L0400

Low Density Polyethylene

Product Description

The grade is a non-additivated, low density polyethylene. It is characterized by a high melt strength leading to a good bubble stability during blown film extrusion. 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	Agriculture Film; Bags & Pouches; Heavy Duty Packaging; Liner Film; Shrink Film; Stretch Hood
Market	Flexible Packaging
Processing Method	Blown Film
Attribute	General Purpose; Good Processability; Good Tear Strength; Good Toughness
Internal ref. number	1Q006, BEN8211
Revision	Version 1.1, June 2026

Properties.

		Nominal		
		Value	Units	Test Method
Physical				
Melt Flow Rate, (190 °C/2.16 kg)		0.25	g/10 min	ISO 1133-1
Density		0.923	g/cm³	ISO 1183-1
Mechanical				
Tensile Modulus		260	MPa	ISO 527-1, -2
Tensile Stress at Yield		10	MPa	ISO 527-1, -2
Film				
Dart Drop Impact Strength, F50		250	g	ASTM D1709
Tensile Strength				
MD		27	MPa	ISO 527-1, -3
TD		25	MPa	ISO 527-1, -3
Tensile Strain at Break				
MD		200	%	ISO 527-1, -3
TD		500	%	ISO 527-1, -3
Coefficient of Friction		>0.8		ISO 8295
Impact				
Failure Energy (Film thickness: 70 µm)		6.5	J/mm	DIN 53373
Thermal				
Vicat Softening Temperature, (A/50)		96	°C	ISO 306
Peak Melting Point		110	°C	ISO 11357-3
Optical				
Haze, (50 µm)		<14	%	ASTM D1003
Gloss				
(20°)		>15	ASTM D2457	

(60°) >50 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 170-220 °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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