

Technical Data Sheet : KeyForm L0651

Low Density Polyethylene

Product Description

The polymer grade is an additivated, low density polyethylene. It contains slip agent. It is characterized by a good melt strength leading to a good bubble stability during blown film extrusion.

Films made exhibit a good shrinkage performance, provides the option to produce films with good optical and mechanical 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
Market	Flexible Packaging
Processing Method	Blown Film
Attribute	Good Heat Seal; Good Processability; Low Friction; Superior Optical Properties; Unspecified Slip
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Properties.

		Nominal		Test Method
		Value	Units	
Physical				
Melt Flow Rate, (190 °C/2.16 kg)		0.9	g/10 min	ISO 1133-1
Density		0.927	g/cm ³	ISO 1183-1
Mechanical				
Tensile Modulus		300	MPa	ISO 527-1, -2
Tensile Stress at Yield		12	MPa	ISO 527-1, -2
Film				
Dart Drop Impact Strength, F50		120	g	ASTM D1709
Tensile Strength				
MD		27	MPa	ISO 527-1, -3
TD		22	MPa	ISO 527-1, -3
Tensile Strain at Break				
MD		300	%	ISO 527-1, -3
TD		300	%	ISO 527-1, -3
Coefficient of Friction		<0.3		ISO 8295
Impact				
Failure Energy (Film thickness: 70 µm)		4	J/mm	DIN 53373
Thermal				
Vicat Softening Temperature, (A/50)		100	°C	ISO 306
Peak Melting Point		114	°C	ISO 11357-3
Optical				
Haze, (50 µm)		<7	%	ASTM D1003

Gloss				
	(20°)	>50	ASTM D2457	
	(60°)	>100	ASTM D2457	
Additive				
	Slip, Erucamide		500 ppm	Velogy method
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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