



**Typical Application**

Agriculture Film, Film Wrap, Shrink Film, Heavy Duty Shipping Sacks, Trash Can Liners, Food & Consumer Packaging.

**Product Description**

Ramolene LLDB 18100 is a linear low density polyethylene resins used for applications that require maximum strength and toughness. The Ramolene LLDB 18100 offers enhanced film strength, drawdown, toughness and heat seal strength. In addition, the resin has excellent low temperature resistance for applications such as stretch film and frozen food packaging.

Typical Properties	English Unit	SI Unit	ASTM
<b>Physical</b>			
Melt Flow Rate (190 °C / 2.16 kg)	1.00 g/10 min	1.00 g/10 min	D1238
Density (23 °C)	0.918 g/cm <sup>3</sup>	0.918 g/cm <sup>3</sup>	D1505
<b>Mechanical Stress &amp; Impact</b>			
Dart Drop Impact Strength, F50	200 g/μm	200 g/μm	D1709
<b>Film TT&amp;E</b>			
Tensile Strength @ Break - MD	7,500 psi	52 MPa	D882
Tensile Strength @ Break - TD	6,500 psi	45 MPa	D882
Tensile Elongation @ Break - MD	620 %	620 %	D882
Tensile Elongation @ Break - TD	700 %	700 %	D882
1% Secant Modulus - MD	35,000 psi	242 MPa	D882
1% Secant Modulus - TD	42,000 psi	290 MPa	D882
Elmendorf Tear Strength - MD	400 g-force	400 g-force	D1922
Elmendorf Tear Strength - TD	650 g-force	650 g-force	D1922
<b>Thermal</b>			
Vicat Softening Temperature	220 °F	104.4 °C	D1525
<b>Optical</b>			
Haze	9 %	9 %	D1003
Gloss (45 °)	60 %	60 %	D2457
<b>Additives</b>			
Slip	0 ppm	0 ppm	Producer Method
AntiBlock	0 ppm	0 ppm	Producer Method

All tests were run under laboratory conditions, ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of Ramtech's products must be guided by the user's own methods for selection of proper formulation. RAMTECH OVERSEAS, INC. disclaims any responsibility for misuse or misapplication of its products. Ramtech makes no warranty of merchantability and there is no warranty that goods supplied shall be fit for any particular purpose.