

## TECHNICAL DATA SHEET (TDS)

# LLDPE LL1-18

## LINEAR LOW DENSITY POLYETHYLENE

**OVERVIEW:** Butene copolymer.  
Toughness and strength.  
Applications: trash bags, garment film, bags on roll.  
Complies with U.S FDA 21 CFR 177.1520 (C) 3.2a.

**ADDITIVE:** Antiblock: Yes          Slip: Yes          Processing Antioxidant: Yes

Properties	Test Method	Units	Nominal Values
<b>Melt Index (190° C/2.16 Kg)</b>	ASTM D1238	g/10min	1.0
<b>Density</b>	ASTM D792	g/cm <sup>3</sup>	0.918
<b>Film Properties</b>			
<b>Tensile strength at yield MD</b>	ASTM D882	Psi/MPa	1600/11
<b>Tensile strength at yield TD</b>	ASTM D882	Psi/MPa	1600/11
<b>Tensile strength MD</b>	ASTM D882	Psi/MPa	7100/49
<b>Tensile strength TD</b>	ASTM D882	Psi/MPa	4900/34
<b>Elongation MD</b>	ASTM D882	%	540
<b>Elongation TD</b>	ASTM D882	%	830
<b>1% Secant Modulus MD</b>	ASTM D882	Psi/MPa	29000/200
<b>1% Secant Modulus TD</b>	ASTM D882	Psi/MPa	33400/230
<b>Dart Drop Impact (F<sub>50</sub>)</b>	ASTM D1709/A	g	100
<b>Haze</b>	ASTM D1003	%	11
<b>Gloss (45°)</b>	ASTM D2457		56

*Film properties are typical of blown film extruded on a 2.5' extruder with 4' die and 100-mil die gap at a blow up ratio of 2, 5:1. But are dependent upon operating conditions.*

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