



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