

TECHNICAL DATA SHEET (TDS)

LDPE LD02HC

LOW DENSITY POLYETHYLENE

OVERVIEW: Homopolymer resin that combine premium clarity with strength and stiffness, good impact strength on both flat and creased film.

Applications: textile packaging, light produce, bread bags and other thin packing films enhanced by clarity and sparkle.

Complies with the specifications U.S FDA 21 CFR 177.1520 (c) 3.2a

ADDITIVE: Antiblock: 1000 ppm slip:750 ppm

Properties	Test Method	Units	Nominal Values
Melt Index (190° C/2.16 Kg)	ASTM D1238	g/10 min	2.0
Base Resin Density (23° C)	ASTM D1505	g/cm ³	0.923
Film Properties			
Tensile strength at yield MD	ASTM D882	Psi/MPa	1625/11.2
Tensile strength at yield TD	ASTM D882	Psi/MPa	1710/11.8
Tensile strength at break MD	ASTM D882	Psi/MPa	3190/22.0
Tensile strength at break TD	ASTM D882	Psi/MPa	2390/16.5
Elongation MD	ASTM D882	%	325
Elongation TD	ASTM D882	%	605
1% Secant Modulus MD	ASTM D882	Psi/MPa	32600/225
1% Secant Modulus TD	ASTM D882	Psi/MPa	40000/276
Haze	ASTM D1003	%	4.5
Gloss @ 45°	ASTM D2457		75
Dart Drop Impact Strength, F50	ASTM D1709A	g	77
Elmendorf Tear Strength MD/TD	ASTM D1922	g	542/456

The values were measured on a 51 µm film in a blown film line with 2.5:1BUR and 1.02 mm die gap.

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