

TECHNICAL DATA SHEET

TRICOLENE® LLH05924

Linear Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of LLDPE is a copolymer of ethylene and 1-hexene produced with Ziegler-Natta catalysts in a gas phase polymerization process. This reference does not contain any slip or antiblock additives.

PROCESSING METHODS

Blown Film Extrusion

CHARACTERISTICS

High Stiffness
High Tensile Strength at Break
Good Optical Properties

APPLICATIONS

Consumer trash bags
Agricultural films
Shrink films

RESIN PROPERTIES

TEST METHOD

VALUES, English Units

VALUES, International Units

Melt Flow Rate 2.16 kg/190 °C	MFR ₂	ASTM D1238	0.55 g/10 min	0.55 g/10 min
Density 23 °C		ASTM D1505	0.924 g/cm ³	0.924 g/cm ³
Slip	---	---	0 ppm	0 ppm
Antiblock	---	---	0 ppm	0 ppm
Processing Aid	---	---	Yes	Yes
Antioxidant Package	---	---	Yes	Yes

BLOWN FILM PROPERTIES

TEST METHOD

VALUES, English Units

VALUES, International Units

Evaluated Film Thickness	---		1.0 mils	25.4 µm
Dart Impact Strength	ASTM D1709A		50 g/F50	50 g/F50
Tensile Strength at Break 38.0 mm (1.5 in), 0.66 m (26.0 in), F50		MD	7,800 psi	53.8 MPa
		TD	5,300 psi	36.6 MPa
Tensile Elongation at Break 20.0 in/min (508 mm/min)	ASTM D882	MD	550 %	550 %
		TD	1,000 %	1,000 %
Tensile Secant Modulus of Elasticity 20.0 in/min (508 mm/min)	ASTM D882	MD	58,000 psi	400.0 MPa
		TD	83,000 psi	572.4 MPa
Haze 1 % Elongation, 0.051 in/min (1.3 mm/min)	ASTM D1003		12.0 %	12.0 %
Specular Gloss 45 °	ASTM D2457		85.0	85.0

PROCESSING CONDITIONS OF EVALUATED FILM

VALUES, English Units

VALUES, International Units

Die Gap	100 mils	2.5 mm
Blow-up Ratio, BUR	2.5 ---	2.5 ---

The data presented here is true and accurate to the best of our knowledge. Likewise, the values are nominal and should not be taken as minimum or maximum specifications. No warranty, express or implied, is made regarding resin performance. The customer must validate these properties according to his own evaluations on his machine and in his laboratory.

REGULATORY COMPLIANCE

This resin complies with the following FDA regulation: 21 CFR 177.1520: Olefinic Polymers. This regulation describes polyolefin resins that can be used safely for food packaging and preservation at low temperatures and at ambient temperatures. This resin is not designed for use in medical applications and should not be used in such applications.

R0: 2022.12.13

FLEXIBLE

