

TRICOLENE LL01920

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-octene produced with Ziegler-Natta catalysts in a solution polymerization process.

PROCESSING METHODS

Blown Film (Co)Extrusion

CHARACTERISTICS

Easy Processability
High Toughness and Strength
Excellent Seal Properties

APPLICATIONS

Heavy Duty Shipping Sacks
High Strength Packaging

RESIN PROPERTIES

	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Melt Flow Rate 2.16 kgf/190 °C	MFR ₂	1.0 g/10 min	1.0 g/10 min
Density 23 °C	ASTM D1505	0.920 g/cm ³	0.920 g/cm ³
Processing Aid	---	Yes	Yes
Antioxidant Package	---	Yes	Yes

FILM PROPERTIES *

	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Evaluated Film Thickness	---	1.0 mils	25.4 μm
Dart Impact Strength 38.0 mm (1.5 in), 0.66 m (26.0 in), F50	ASTM D1709A	270 g	270 g
Elmendorf Tear Strength	ASTM D1922	MD 420 g TD 605 g	420 g 605 g
Tensile Strength at Yield 20.0 in/min (508 mm/min)	ASTM D882	MD 1,500 psi TD 1,500 psi	10 MPa 10 MPa
Tensile Strength at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 7,000 psi TD 4,600 psi	48 MPa 32 MPa
Tensile Elongation at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 480 % TD 670 %	480 % 670 %
Tensile Secant Modulus of Elasticity 1 % Elongation, 0.051 in/min (1.3 mm/min)	ASTM D882	MD 25,400 psi TD 28,300 psi	175 MPa 195 MPa
Haze	ASTM D1003	10.0 %	10.0 %
Specular Gloss 45 °	ASTM D2457	59.0	59.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Die Diameter		4.0 in	102 mm
Die Gap		35 mils	0.9 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.