

TECHNICAL DATA SHEET

TRICOLENE MDF03937

Medium Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of MDPE is a linear copolymer of Ethylene and 1-hexene. This reference does not have any slip or antiblock additives.

PROCESSING METHODS	CHARACTERISTICS	APPLICATIONS
Blown Film Extrusion	Good Stiffness Excellent Toughness Good Bubble Stability	Stiff Lamination Films Industrial Liners Industrial Shrink Film

RESIN PROPERTIES	TEST METHOD	VALUES, English Units	VALUES, International Units
Melt Flow Rate 2.16 kgf/190 °C MFR ₂	ASTM D1238	0.30 g/10 min	0.30 g/10 min
Density 23 °C	ASTM D1505	0.937 g/cm ³	0.937 g/cm ³
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 23 °C, 1.5 in (38.0 mm), 26.0 in (0.66 m), F50	ASTM D1709A	50 g/mil F50	50 g/25.4 µm F50
Elmendorf Tear Strength	ASTM D1922	MD 16 g/mil TD 1600 g/mil	16 g/25.4 µm 1600 g/25.4 µm
Tensile Strength at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 7,900 psi TD 5,600 psi	54.5 MPa 38.6 MPa
Tensile Elongation at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 310 % TD 840 %	310 % 840 %
Tensile Secant Modulus of Elasticity 1 % Elongation, 0.051 in/min (1.3 mm/min)	ASTM D882	MD 88,000 psi TD 121,000 psi	606.9 MPa 834.5 MPa

PROCESSING CONDITIONS OF EVALUATED FILM	VALUES, English Units	VALUES, International Units
Blow-up Ratio, BUR	2.5 ---	2.5 ---
Specific Output	8.00 Lb/h/in	1.79 kg/h/cm

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.

