

TECHNICAL DATA SHEET

TRICOLENE® LDF2923BY

Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of High Clarity Medium-Duty LDPE is a homopolymer of ethylene. This reference contains only an antiblock additive.

PROCESSING METHODS

Blown Film Extrusion

CHARACTERISTICS

High Optical Properties
Good Processability

APPLICATIONS

Light-Duty Shrink Films
Lamination Films

RESIN PROPERTIES	TEST METHOD	VALUES, English Units	VALUES, International Units
Melt Flow Rate 2.16 kgf/190 °C MFR ₂	ASTM D1238	2.00 g/10 min	2.00 g/10 min
Density 23 °C	ASTM D1505	0.923 g/cm ³	0.923 g/cm ³
Antiblock	---	4,000 ppm	4,000 ppm
Antioxidant Package	---	Yes	Yes
RESIN PROPERTIES	TEST METHOD	VALUES, English Units	VALUES, International Units
Evaluated Film Thickness	---	1.25 mils	31.8 µm
Dart Impact Strength 23 °C, 1.5 in (38.0 mm), 26.0 in (0.66 m), F50	ASTM D1709A	100 g/mil F50	100 g/25.4 µm F50
Tensile Strength at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 3,500 psi TD 2,700 psi	24.1 MPa 18.6 MPa
Tensile Elongation at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 440 % TD 830 %	440 % 830 %
Tensile Secant Modulus of Elasticity 1 % Elongation, 0.051 in/min (1.3 mm/min)	ASTM D882	MD 25,000 psi TD 30,000 psi	172.4 MPa 206.9 MPa
Haze	ASTM D1003	5.4 %	5.4 %
Specular Gloss 45 °	ASTM D2457	84.0	84.0

PROCESSING CONDITIONS OF EVALUATED FILM	VALUES, English Units	VALUES, International Units
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.

