

TECHNICAL DATA SHEET

TRICOLENE LDU8918

Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of LDPE is a homopolymer of ethylene produced in an autoclave polymerization process

PROCESSING METHODS	CHARACTERISTICS	APPLICATIONS
Extrusion Coating Injection Molding	Optimal Neck-In and Draw-Down Performance Excellent Flow Minimal Taste/odor Contribution	Milk and Juice Gable Top Cartons Aseptic Rectangular Shaped Drink Boxes Caps and closures,

RESIN PROPERTIES	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Melt Flow Rate 2.16 kg/190 °C MFR ₂	ASTM D1238	8.0 g/10 min	8.0 g/10 min
Density 23 °C	ASTM D1505	0.918 g/cm ³	0.918 g/cm ³
Antioxidant Package	---	Yes	Yes

MECHANICAL PROPERTIES	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Tensile Strenght at Yield 2.0 in/min (50.8 mm/min), Type IV compression molded plaque	ASTM D638	1,200 psi	8.3 MPa
Tensile Strenght at Break 2.0 in/min (50.8 mm/min), Placa IV por Compresion	ASTM D638	1,400 psi	9.7 MPa
Tensile Elongation at Yield 2.0 in/min (50.8 mm/min), Placa IV por Compresion	ASTM D638	4 %	4 %
Tensile Elongation at Break 2.0 in/min (50.8 mm/min), Placa IV por Compresion	ASTM D638	500 %	500 %
Flexural Modulus Secant at 2 % of Elongation - 0.51 in/min (13.0 mm/min)	ASTM D790B	34,000 psi	234 MPa
Tensile Impact Strength Type S bar, 23 °C	ASTM D1822	130 ft-lbf/in ²	273 kJ/m ²
Shore Hardness Escala D, 15 s	ASTM D2240	43.0	43.0

OTHER PROPERTIES	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Vicat Softennig Temperature - VST 10 N (1 kg), 50 °C/h	ASTM D1525	190 °F	88 °C
Heat Deflection Temperature - HDT 66 psi (0.455 MPa), Method A	ASTM D648	99 °F	37 °C
Environmental Stress Crack Resistance - ESCR Condition B: 100 % Igepal at 50 °C, F50	ASTM D1693	< 1 h	< 1 h

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.

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