

RAMISLENE MLLD1815

METALLOCENE LINEAR LOW DENSITY POLYETHYLENE (MLLDPE)

DESCRIPTION

RAMISLENE MLLD1815 Metallocene Linear Low Density Polyethylene (mLLDPE) is a metallocene ethylene-hexene copolymer. It has a good processability and performs well in a wide range of general purpose and high performance blown film applications. Films produced with this grade offer good tensile and impact strength, puncture resistance and sealing properties.

TYPICAL APPLICATIONS

RAMISLENE MLLD1815 (mLLDPE) is typically used for applications like heavy duty bags, agriculture film, stretch hood, lamination film, frozen bags.

Properties have been measured on blown film of 25 µm and BUR = 2.5

Typical processing conditions

Processing temperatures 180 - 230 °C Blow up ratio: (BUR) 2.0 - 4.0

This product is not intended for and must not be used in any pharmaceutical/medical applications..

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR) at 190 °C and 2.16 kg	1.5	g/cc	ASTM D1238
Density	0.918	g/cm ³	ASTM D792
MECHANICAL PROPERTIES			
Dart Impact Strength (1)	640	g/µm	ASTM D1709
OPTICAL PROPERTIES			
Haze	40	%	ASTM D1003
FILM PROPERTIES			
Tear strength TD Elmendorf	290	g/µm	ASTM D1922
Tear strength MD Elmendorf	420	g/µm	ASTM D1922
Tensile test film			
Strain at break MD	550	%	ASTM D882
Strain at break TD	690	%	ASTM D882
Stress at break MD	60	MPa	ASTM D882
Stress at break TD	60	MPa	ASTM D882
Yield stress MD	9.2	MPa	ASTM D882
Yield stress TD	9.7	MPa	ASTM D882
THERMAL PROPERTIES			
Vicat Softening Temperature at 10 N (VST A)	100	°C	ISO 306
DSC test melting point	118	°C	ASTM D3418

(1) Dart Impact F50 is measured via ASTM D1709A

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