

Metallocene C6 Linear Low Density Polyethylene (mLLDPE)

Americolene® AML56158A 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 cast film applications. Films produced with this grade offer good impact strength, puncture resistance, sealing and optical properties.

mLLDPE Americolene® AML56158A typically used for applications:

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 for Americolene® AML56358TA Metallocene Linear Low Density Polyethylene (mLLDPE) : 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	UNITS TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate at 190 °C and 2.16 kg	1.5	g/10 min	ASTM D1238
Density	0.918	g/cm ³	ASTM D-792
OPTICAL PROPERTIES			
Haze	40	%	ASTM D1003
Dart Impact Strength	640	g/µm	ASTM D1709
FILM PROPERTIES			
Tear strength TD Elmendorf	290	g/µm	ASTM D1922
Tear strength MD Elmendorf	420	g/µm	ASTM D1922
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 TD	9.2	MPa	ASTM D882
Yield stress MD	9.7	MPa	ASTM D882

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