

AMERICOLENE® M-LL8127

AMERICOLENE

METALLOCENE C6 LLDPE

DESCRIPTION

AMERICOLENE® Metallocene Linear Low Density Polyethylene (mLLDPE) 7118A 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. AMERICOLENE® 7118A is TNPP free. This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL APPLICATIONS

AMERICOLENE® Metallocene Linear Low Density Polyethylene (mLLDPE) 7118A is typically used for applications like heavy duty bags, agriculture film, stretch hood, lamination film, frozen bags.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	1.0	g/10 min	ASTM D1238
Density	918	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Dart Impact Strength (1)	600	g	ASTM D1709
OPTICAL PROPERTIES			
Gloss (45°)	29	%	ASTM D2457
Haze	30	%	ASTM D1003
FILM PROPERTIES			
Tensile test film (1) (2)			
Stress at break MD	55	MPa	ASTM D882
Stress at break TD	45	MPa	ASTM D882
Strain at break MD	500	%	ASTM D882
Strain at break TD	600	%	ASTM D882
Stress at yield MD	9.4	MPa	ASTM D882
Stress at yield TD	9.6	MPa	ASTM D882
Elmendorf Tear Strength MD	280	g	ASTM D1922
Elmendorf Tear Strength TD	420	g	ASTM D1922
Puncture Force	50	N	AMERICOLENE method
Puncture Energy	3.8	J	AMERICOLENE method
THERMAL PROPERTIES			
DSC test			
Melting point	120	°C	ASTM D3418

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