

SUPEER™ MLLDPE 7118A

METALLOCENE C6 LLDPE
REGION AMERICAS

DESCRIPTION

SUPEER™ 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. SUPEER™ 7118A is TNPP free.

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

TYPICAL APPLICATIONS

SUPEER™ 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

Revision 20250224

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	SABIC method
Puncture Energy	3.8	J	SABIC method
THERMAL PROPERTIES			
DSC test			
Melting point	120	°C	ASTM D3418

(1) Dart Impact F50 is measured via ASTM D1709 A

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

PROCESSING CONDITIONS

Typical processing conditions for SUPEER™ Metallocene Linear Low Density Polyethylene (mLLDPE) 7118A :
Processing temperatures 180 - 230 °C Blow up ratio: (BUR) 2.0 - 4.0

STORAGE AND HANDLING

Polyethylenes resins (in pelletised or powder form) should be stored in such a way that it prevents exposure to direct sunlight and/or heat, as this may lead to quality deterioration. The storage location should also be dry, dust free and the ambient temperature should not exceed 50 °C. Not complying with these precautionary measures can lead to a degradation of the product which can result in colour changes, bad smell and inadequate product performance. It is also advisable to process polyethylene resins (in pelletised or powder form) within 6 months after delivery, this because also excessive aging of polyethylene can lead to a deterioration in quality.

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