



Metallocene Polyethylene

Engineered for Excellence



Strength in Every Layer
Commitment delivered to your Doorstep



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H MEL Grades



HMEL's POLYSURE Metallocene LLDPE (mLLDPE) is engineered to meet the evolving needs of processors seeking superior performance, consistent quality, and advanced material innovation. POLYSURE mLLDPE is manufactured at HMEL's world-class petrochemical facility located at Bathinda, Punjab using advanced metallocene catalysts through the UNIPOL™ PE gas-phase process licensed from Univation Technologies, USA. This technology enables uniform comonomer distribution and precise control over molecular architecture, resulting in consistent, high-quality film performance. The outcome is films with superior toughness, excellent clarity, exceptional sealing behavior, and outstanding puncture resistance across a wide range of flexible packaging applications.

With assured domestic manufacturing, an expanding portfolio, and a customer-centric approach, POLYSURE Metallocene grades are developed to support the evolving demands of flexible packaging, reinforcing HMEL's commitment to future-ready flexible packaging solutions. HMEL's dual production line configuration at the Swing plant provides a significant advantage by enabling the production of Metallocene LLDPE grades on either line, ensuring high supply reliability.

POLYSURE Metallocene LLDPE and other POLYSURE grades of PP, HDPE, and LLDPE are also available as Chemically Recycled Circular Polymers under the CYCLOSURE brand and are ISCC PLUS Certified, ensuring traceability and verified sustainable content across the value chain.

HMEL offers dedicated technical support through its Customer Service & Development Centre (CSDC), providing processors with access to pilot-scale extrusion trials, advanced film formulation support, and end-to-end processing assistance. Backed by a team of experienced application and process experts, HMEL ensures consistent, high-performance film production by delivering practical guidance, troubleshooting support, and application-specific solutions tailored to customer requirements.

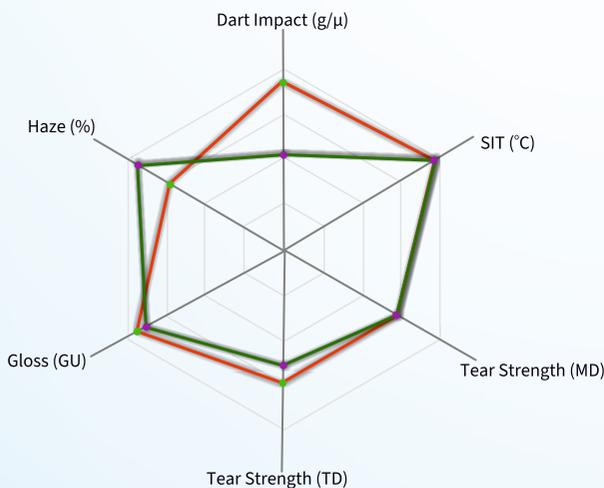
Key Features of Polysure Metallocene LLDPE

- Smooth Processing
- Low SIT and Broad Sealing Window
- Outstanding Puncture Resistance
- Excellent Drawdown with Down-Gauging Capability
- Outstanding Dart Impact Strength
- Excellent Optical Properties
- Balanced MD & TD Tear Strength

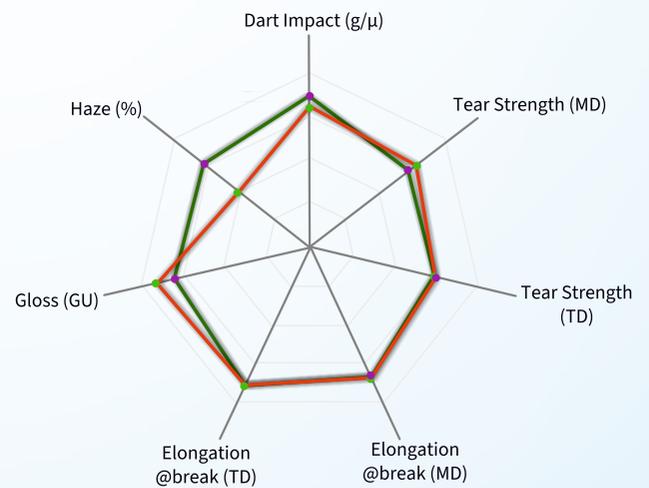
POLYSURE Metallocene Film Performance Profile

■ Polysure mLLDPE F0120LM (C_e) ■ Reference mLLDPE (C_e)

■ Polysure mLLDPE F0418LM (C_e) ■ Reference mLLDPE (C_e)



Measured on 100% mLLDPE film
BUR: 2.5, Die Gap: 1.8mm, 25.4 μm thickness



Measured on 20 μm thick cast films

Sector	Grade	MFI*	Density**	Typical Applications	Special Characteristics
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Polysure Metallocene LLDPE (Univation Technologies)

Polysure Metallocene LLDPE: High Performance

Blown Film (Slip)	F0120LM	1	0.921	High performance multilayer film, FFS film	Excellent Dart Impact & Clarity with slip & anti-block
Blown Film (Non-Slip)	F0118LM	1	0.920	Multilayer film, FFS film, Overwrap film, Freezer film	Excellent Dart Impact & Clarity without slip & anti-block
Blown Film (Slip)	F0220LM	2	0.920	Multilayer film, FFS film, Overwrap film, Freezer film, Stand up Pouches	Outstanding Dart Impact & Seal strength with slip & anti-block
Blown Film (Slip)	F0116LM	1	0.916	Multilayer film, Heavy Duty Sacks, FFS film, Stand up Pouches	High Performance mLLDPE, Outstanding Dart & Seal strength with slip & anti-block
Blown Film (Non-Slip)	F0115LM	1	0.915	Multilayer Film, FFS film, Stand-up pouches, Heavy Duty sacks	High Performance mLLDPE, Outstanding Dart & Seal strength without slip & anti-block
Cast Film	F0418LM	3.5	0.918	Cast Film, Stretch Wrap Film, Food Packaging Film, Hygiene Film	Superior drawdown, very good impact & Puncture Resistance
Extrusion & Lamination	E1518LM	15	0.918	Extrusion Lamination, Masterbatch Carrier, Liquid Packaging, W&C Compound	Smooth processing, Outstanding sealing & broad hot tack strength
	E1918LM	19	0.918	Liquid Packaging, Masterbatch Carrier, Extrusion Lamination, Coextrusion Coating	Outstanding sealing & broad hot tack strength, Smooth processing.

Polysure Metallocene LLDPE: Easy Processing

Blown Film (Non-Slip)	F327LME	0.3	0.927	Multilayer Blown film, FFS, Heavy Duty Bags, Shrink film, Food Packaging, Lamination film, Standup Pouches	Easy processing, enhanced toughness without slip & anti-block
Blown Film (Non-Slip)	F535LME	0.5	0.935	Food packaging, Lamination Film, Standup Pouches, FFS, Multilayer film, Heavy Duty bags, Shrink film	Easy processing, superior tensile, tear strength without slip & anti-block
Blown Film (Slip)	F521LME	0.5	0.921	Agricultural film, Food packaging, Shrink film, FFS, Stand Up Pouches, Heavy Duty Bags, Cast Stretch film, Lamination Film, Multilayer Blown Film	Easy processing, superior tear and puncture resistance with slip & anti-block
Blown Film (Non-Slip)	F338LME	0.25	0.938	Lamination Film, Compression Packaging, Multilayer Film, Lami tubes	Easy processing with medium density, high stiffness and shrink without slip & anti-block
Blown Film (Non-Slip)	F938LME	0.9	0.938	Lami Tubes, Bread Bags, Hygiene Film, Lamination Film, Compression Packaging, Monofilament	Easy processing, medium density, high tensile modulus without slip & anti-block

Polysure Metallocene LLDPE: Versatile Performance

Blown Film (Non-Slip)	F518LMV	0.5	0.918	Flexible Packaging, Construction Liners, Liquid Packaging, Blown Silage, Agricultural film, Heavy Duty sacks	Excellent mechanical properties and bubble stability without slip & anti-block
Blown Film (Slip)	F517LMV	0.5	0.917	Agricultural film, Construction Liners, Heavy Duty sacks, Liquid Packaging, Blown Silage, Flexible Packaging	Superior mechanical properties at higher output with slip & anti-block
Blown Film (Non-Slip)	F516LMV	0.5	0.916	Agricultural film, Construction Liners, Heavy Duty sacks, Liquid Packaging, Blown Silage, Flexible Packaging	Superior mechanical properties at higher output without slip & anti-block
Blown Film (Slip)	F815LMV	0.8	0.915	Barrier Film, Laminated Sacks, Sachet, Freezer Film, Liquid Packaging	Exceptionally high toughness and sealing performance with slip & anti-block
Blown Film (Non-Slip)	F814LMV	0.8	0.915	Barrier Film, Laminated Sacks, Sachet, Freezer Film, Liquid Packaging	Exceptionally high toughness and sealing performance without slip & anti-block

*MFI in g/10 mins as per ASTM D1238 **Density in g/cc as per ASTM D1505 @ 23°C

PFAS free variant available for all the Polysure Metallocene LLDPE grades. "R" will be added at the end of the grade name for PFAS free variant.

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