



**SHOBEIR SHIMI**  
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ARYA SASOL POLYMER COMPANY

## LOW-DENSITY POLYETHYLENE LFI 2047A

LFI 2047A is a low density polyethylene, with good toughness and good optical properties. LFI 2047A contains a medium level of antiblock and slip agent (Erucamide) additives. This grade offers low energy consumption and good draw down ability during processing.

Producer	Characteristic Properties	Applications	Additive
Arya Sasol Petrochemical	Good toughness- High speed converting without sticking- Good optical properties.	Blown film extrusion- High clarity laundry bags- Textile wrapping films- Zip lock bags.	Antioxidant: Yes Antiblock : Yes Slip Agent : Yes

### Typical Properties

Resin Properties	Unit	Typical	ASTM Method
MFI (190 °C /2.16 Kg )	dg/min	4.7	ISO 1133

Density	kg/m3	920	ISO 1183
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Thermal Properties	Unit	Typical Value	Test Method
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Haze	%	9	ASTM D1003 A
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Gloss (45°)	%	55	ASTM D2457
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Clarity	mV	21	SABTEC method
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Mechanical Properties	Unit	Typical Value	Test Method
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Impact Strength	kJ/m	15	ASTM D4272
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Tear Strength (TD/MD)	kN/m	25/80	ISO 6383-2
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Yield Stress (TD/MD)	MPa	11/12	ISO 527-1,3
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Tensile Stress at Break (TD/MD)	MPa	15/27	ISO 527-1,3
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Strain at Break (TD/MD)	%	> 500 / >100	ISO 527-1,3
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Modulus of Elasticity (TD/MD)	MPa	200/200	ISO 527-1,3
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