

**Blown Film Extrusion, Food Packaging, Shrink Hoods**

Low Density Polyethylene  
Film Grades

LFI 2047A  
LFI 2119  
LFI 2125A  
LFI 2130  
LFI 2185  
LFI 2185A  
LFI 2575



**REACH Certified**  
**Food Contact Compliance Certified**

From food packaging bags to agricultural films, from high clarity laundry bags to heavy duty liners, LFI™ Low Density Polyethylene (LDPE) grades offers a versatile choice for blown and cast film applications. LFI™ resins offer an excellent balance of properties including good melt strength, flexibility, low neck-in and good adhesion to many substrates. Moreover, they enable an uncoupling from conventional rules in LDPE between melt strength and melt index. This offers those customers in the blown film industry serving a wide range of applications within food and industrial packaging and agricultural films the ability to produce thinner films faster for improved conversion efficiency and sustainability. These grades offer low energy consumption, high output, excellent optical properties and good draw down ability during processing. LFI™ has been manufactured under SABTEC licensed CTR (Clean Tubular Reactor) technology.

ASPC offers a wide range of various grades of LDPE with different MFI and density as well as different additive package including slip and anti-block agents. These grades are used in general-purpose application along with being pure or excellent blend partners in high performance film application, creating an outstanding balance between mechanical and optical properties.

### ASPC film grades portfolio: LFI 2047A, LFI 2119, LFI 2125A, LFI 2130, LFI 2185, LFI 2185A and LFI 2575

Our recommended applications:

- ▶ Packaging Film
- ▶ Blown film extrusion
- ▶ General Lamination Films
- ▶ High clarity laundry bags
- ▶ Textile wrapping films
- ▶ Zip lock bags
- ▶ Food Packaging
- ▶ Heavy duty packaging film
- ▶ Shrink hoods
- ▶ Industrial sacks
- ▶ Liners
- ▶ Surface protection films
- ▶ Thin shrink films
- ▶ Thin packaging films and bags

#### Main features:

- ▶ Very good optical properties
- ▶ Very good melt strength
- ▶ Good toughness and biaxial properties
- ▶ Very suitable for producing thin shrink films
- ▶ High speed converting without sticking
- ▶ Suitable when ultimate down gauging is required
- ▶ Low blocking behavior

### LDPE Film Grades Main Properties

PROPERTIES	PHYSICAL		MECHANICAL								THERMAL		OPTICAL		ADDITIVE PACKS
	Density <sup>2</sup> 23°C	Melt Flow Rate 190°C, 2.16 kg	Modulus of Elasticity (TD-MD)	Tensile Stress at Yield (TD-MD)	Tensile Stress at Break (TD-MD)	Tensile Strain at Break (TD-MD)	Elmendorf Tear Strength (TD-MD)	Dart Impact Strength	Coefficient of Friction	Blocking/Re- Blocking Force	Melting Temperature	Vicat Softening Temp. VST (10N)	Haze	Gloss 45°	Additives (AO= Antioxidant, AB= Anti-Block, S= Slip Agent)
Test Method	ISO 1183	ISO 1133	ISO 527-1, -3				ISO 6383-2	ASTM D4272	ASTM D1894	ASTM D3354	ISO 3146	ISO 306/A	ASTM D1003A	ASTM D2457	-
Unit	g/cm <sup>3</sup>	g/10min	MPa	MPa	MPa	%	kN/m	kJ/m	-	g	°C	°C	%	GU	-
LFI 2130	0.921	0.3	150-140	10-11	24-22	>500- >350	45-20	31	0.7	<5/20	110	91	12	55	AO
LFI 2575	0.925	0.75	200-190	12-12	25-28	>500- >200	30-35	20	0.7	<5/20	112	96	34	50	AO
LFI 2185	0.921	0.85	170-160	11-12	21-24	>500- >200	30-40	28	1.0	40/140	109	90	9	60	AO
LFI 2185A	0.921	0.85	170-160	11-12	21-24	>500- >200	30-40	30	0.1	10/30	109	90	11	57	AO- AB- S
LFI 2119	0.921	1.9	200-190	11-13	20-35	>500- >150	25-60	26	>1	20/100	108	89	9	55	AO
LFI 2125A	0.921	2.5	180-190	11-13	19-30	>500- >100	25-70	23	0.2	<5/0	108	88	9	60	AO- AB- S
LFI 2047A	0.920	4.7	200-200	11-12	15-27	>500- >100	25-80	15	0.2	20/10	107	86	9	55	AO- AB- S
LFI 2447A	0.924	4.7	250-350	13-13	16-27	>450- >100	30-90	13	0.2	<5/20	111	92	9	55	AO- AB- S