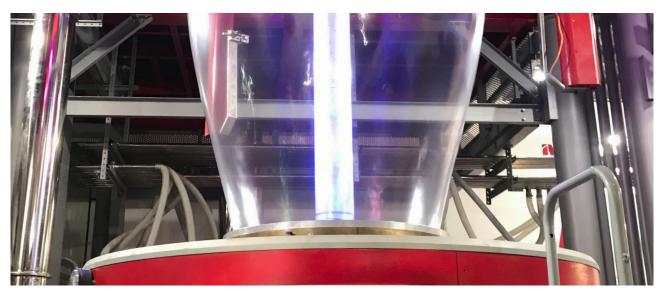


PRODUCT NEWS

ANBIQ™ FM1810/FM1818 ENHANCED LLDPE INNOVATIVE PACKAGING



Anbiq™ FM1810 and FM1818 have high benefit-to cost-ratio with outstanding optical film clarity and gloss.

ANBIQ™ FM1810/FM1818 – THE ENHANCED INGREDIENT FOR EXCELLENT BALANCE OF CLARITY, STRENGTH AND OPTICS

Anbiq[™] FM1810/FM1818 is a Linear Low-Density Polyethylene (LLDPE) resin produced using the proprietary Borstar® bimodal technology. It is an enhanced LLDPE, providing high clarity, strength and optical properties, designed by unique combination of smart catalyst design and a superior two-reactor-system process and co-monomer distribution.

Anbiq[™] FM1810/FM1818, containing Antioxidant and Polymer Processing Aid (PPA), is designed for easy processing with excellent optical properties. It offers good impact strength and sealing performance on conventional blown film.

BOROUGE OFFERS THE TOTAL SOLUTION FOR FILM STRUCTURES AND SAFETY

Anbiq[™] FM1810/FM1818 can be processed by most types of blown film equipment such as LDPE, LLDPE or High Density Polyethylene (HDPE) extruders. With a minimum 5% LDPE blended together, its optical properties will be boosted. Anbiq[™] FM1810/FM1818 enables energy saving by processing at lower temperature and motor load with excellent bubble stability.

Anbiq[™] FM1810/FM1818 fulfils food contact regulations in most countries. In terms of storage, it should be stored in dry conditions at temperatures below 50°C, protected from UV light. Anbiq[™] FM1810/FM1818 is not classified as a hazardous mixture but dust and fine particles from the product carry a risk of dust explosion. Anbiq[™] FM1810/FM1818 is suitable for recycling using modern methods of shredding and cleaning.

ANBIQ™ FM1810/FM1818 SERVES VARIOUS APPLICATIONS

- Lamination
- Liquid Packaging
- Agriculture Film
- Food Packaging
- Impact Modifier
- Multilayer Packaging Film

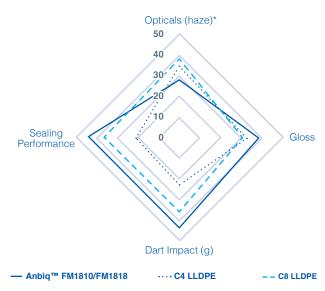
BENEFITS

- Easy processability, high output rates
- Good optical properties
- Excellent organoleptic properties
- Good impact strength
- Optimised seal performance
- Low Seal Initiation Temperature (SIT); wide sealing window



THE PERFECT BALANCE OF CLARITY AND STRENGTH FOR VERSATILITY IN MEETING DIVERSE FILM REQUIREMENTS

Anbiq[™] FM1810/FM1818 Benchmarks



*Opticals (Haze) - Lower haze means better clarity

TECHNICAL OVERVIEW

Anbiq[™] FM1810/FM1818 film properties are measured on 40 micron blown film produced at lab scale extruder with processing conditions: BUR = 2.5:1, FLH = 3 DD, Die gap = 1.8mm.

Anbiq[™] FM1810 additivation consists of AO and PPA whereas Anbiq[™] FM1818 includes AO, PPA, SA and AB.

Properties	Typical Value	Unit	Test Method
Density	918	kg/m³	ISO1183
Melt Flow Rate MFR (190°C/2.16kg)	1.1	g/10min	ISO1133
Melting Temperature	122	°C	ISO 11357/03
Tensile Strength at Break – MD/TD	45/35	MPa	ISO 527-3
Elongation at Break – MD/TD	650/700	%	ISO 527-3
Tensile Strength at Yield – TD	15	MPa	ISO 527-3
Tensile Modulus (1% Secant) – MD/TD	210/240	MPa	ASTM D 882
Elmendorf Tear Strength – MD/TD	100/650	g	ASTM D 1922
Dart Drop Impact	>200	g	ASTM D 1709/A
Haze	8.5	%	ASTM 1003
Gloss (60°)	100	_	ISO 2813
Puncture Resistance, force	30	N	ASTM D 5748
Puncture Resistance, energy	1.0	J	ASTM D 5748

^{*} Typical properties and data should not be used for specification work

About Borouge A joint venture between ADNOC and Borealis, Borouge is a leading petrochemicals company that provides innovative plastics solutions for the energy, infrastructure, mobility, packaging, healthcare and agriculture industries. With 4.5 million tonnes of annual capacity, Borouge has the world's largest integrated polyolefin complex, with the ambition to double its current capacity by 2030.

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^{**} All films were blended with 10% LDPE