

# michdar

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MICH DAR.

To Whom it may concern –

This letter serves to confirm that all Airothene products are manufactured using 100% virgin food grade SASOL LT 660 LDPE and LT388

Attached is a preliminary product data sheet of raw material used to produce Airothene –

If you require further information regarding the above , please do not hesistate to contact me .

Regards

Jonathan Yee Loong

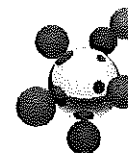
082 7418727

cairothene  
EPE | AIROTHENE PRODUCTS

Michdar Trading manufactures and markets  
airothene/EPE products under the Cair-o-thene label  
[www.michdar.co.za](http://www.michdar.co.za)

# LDPE - Preliminary Product Data Sheet

**SASOL**  
reaching new frontiers



## LT660

**Date of issue:** June 2006

### Information

Polymer Technology Centre  
P O Box 72  
Modderfontein 1645  
South Africa

Tel: +27 (0) 11 458 0700

Fax: +27 (0) 11 458 0734

### Polyethylene sales

Sasol Polymers  
Johannesburg  
Tel: +27 (0) 11 790 1250  
Cape Town  
Tel: +27 (0) 21 658 6320  
Durban  
Tel: +27 (0) 31 267 0777

**Sasol Polymers**  
**Polythene Business**

## Film

**Melt Index: 2.00**

**Density: 0.923**

### Features

Tubular resin  
Good clarity  
Wide Sealing range  
Good drawdown

### Additives

Antioxidant  
Medium Slip  
Medium antiblock

### Applications

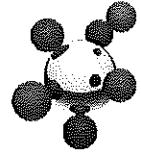
General packaging  
Clarity film  
Boutique bags  
Thin film

## Performance properties - LT660

Test	Value	Unit	Test method	Based on
MFI (190°C/2.16kg)	2.0	g/10min	PTM 058	ASTM D1238
Nominal density	0.923	g/cm <sup>3</sup>	PTM 002	ASTM D1505
Tensile strength at yield	MD 10	MPa	PTM 006	ASTM D882
	TD 10	MPa	PTM 006	ASTM D882
Tensile strength at break	MD 24	MPa	PTM 006	ASTM D882
	TD 16	MPa	PTM 006	ASTM D882
Elongation	MD 212	%	PTM 006	ASTM D882
	TD 367	%	PTM 006	ASTM D882
Elmendorf tear	MD 5.8	g/μm	PTM 009	ASTM D1922
	TD 5.3	g/μm	PTM 009	ASTM D1922
Impact strength	75	F <sub>50g</sub>	PTM 066	ASTM D1709
Haze	8.1	%	PTM 065	ASTM D1003
Gloss	63	units	PTM 064	ASTM D2457
Clarity	46	units	PTM 071	ASTM D1746
Coefficient of friction	μs 0.10	units	PTM 026	ASTM D1894
	μd 0.10	units	PTM 026	ASTM D1894
Blocking	<25	g	PTM 034	ASTM D3354

The above values were measured on 30μm film produced on a 75mm Barmag extruder with GPDP screw and a 250mm die, using 170°C melt temperature, 625mm FLH and 2.5:1 blow ratio.

# LDPE - Preliminary Product Data Sheet

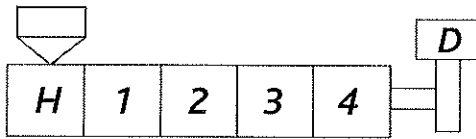


## Processing

Optimum melt temperature: 160°C - 170°C. Should be processed on a conventional LDPE extruder, but can be processed on a LLDPE extruder (wide die gap) with drawdown limitations. Recommended screen pack: 60/100/60 BS mesh.

**LT660 film**

°C	H	1	2	3	4	D
200						
180						
160						
140						
120						



## Presentation

Supplied in pellet form in 25kg bags.

## Food Packaging

This material complies with F&DA regulation 177.1520 when used unmodified and according to good manufacturing practices for food contact applications. Accordingly, this material may be used in all food contact applications (except holding foods during cooking).

## Conveying

Conveying equipment should be designed to prevent accumulation of fines and dust particles that are contained in all polyethylene resins. These fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used:

1. be equipped with adequate filters
2. is operated and maintained in such a manner to ensure no leaks develop
3. that adequate grounding exists at all times

We further recommend that good housekeeping be practised throughout the facility.

## Storage

As ultraviolet light may cause a change in the material, all resins should be protected from direct sunlight during storage.

## Handling

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal protection to prevent possible mechanical or thermal injury to the eyes. Fabrication areas should be ventilated to carry away fumes or vapours.

## Combustibility

Polyethylene resins will burn when supplied adequate heat and oxygen. They should be handled and stored away from contact with direct flames and/or other ignition sources. In burning, polyethylene resins contribute high heat and may generate a dense black smoke. Fires can be extinguished by conventional means with water and water mist preferred. In enclosed areas, fire fighters should be provided with self contained breathing apparatus.