# **PRODUCT DATA SHEET**



LDPE LDPE LDPE	LDPE LDPE LDPE	LDPE LDPE LDPE	LDPE LDPE LDPE			
Low Density	Polyethylene	<b>Technical support:</b> Sasol Chemicals North America LLC 12120 Wickchester Lane	<b>Sales office:</b> Sasol Chemicals North America LLC 12120 Wickchester Lane			
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Melt Index: 2.0 g/1	0min	Density: 0.922 g/cm <sup>3</sup>				
Features	Applications	Additives				

- Tubular Resin
- Good balance of optical and mechanical properties
- Processes on both Blown and cast
- Bakery Film
- Compounding
- Foams
- Blending with LLDPE

- Slip (750 ppm)
- High performance, High purity Antiblock (1000 ppm)
- Antioxidant

Typical prop	erties (not to be construed as specifications)	Value (SI)	Value (English)	Method	
Resin Properties	Melt Index (190°C/2.16kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238	
	Density	0.924 g/cm <sup>3</sup>	0.924 g/cm <sup>3</sup>	ASTM D1505	
	Base Density <sup>(1)</sup>	0.922 g/cm <sup>3</sup>	0.922 g/cm <sup>3</sup>	Sasol Method	
Film Properties	Tensile strength at yield MD	1500 psi	10 MPa	ASTM D882	
	Tensile strength at yield TD	1600 psi	11 MPa	ASTM D882	
	Tensile strength at break MD	3600 psi	25 MPa	ASTM D882	
	Tensile strength at break TD	2700 psi	19 MPa	ASTM D882	
	Elongation MD	130 %	130 %	ASTM D882	
	Elongation TD	490 %	490 %	ASTM D882	
	1% Secant Modulus MD	30000 psi	210 MPa	ASTM D882	
	1% Secant Modulus TD	37000 psi	260 MPa	ASTM D882	
	Elmendorf Tear MD	440 g	440 g	ASTM D1922	
	Elmendorf Tear TD	110 g	110 g	ASTM D1922	
	Dart Drop Impact Strength (F <sub>50</sub> )	120 g	120 g	ASTM D1709A	
	Haze	6 %	6 %	ASTM D1003	
	Gloss (45°)	69	69	ASTM D2457	

(1) Base density is calculated assuming that the product doesn't contain any antiblock additive.

The above values were measured on a 1.5 mil (38.1  $\mu$ m) film produced on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 BUR using a die gap of 30 mil (0.8mm) die gap.



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## 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. Please consult the material safety data sheet (SDS) for more detailed information.

#### Storage

As ultraviolet light may cause a change in the material, all resins should be protected from direct sunlight during storage. If stored in cool (<77°F (25°C)), dry area with low ambient light levels, polyolefin resins are expected to maintain their original material and processing properties for at least 12 months.

# 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.

### Conveying

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

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

It is further recommended that good housekeeping is practiced throughout the facility.