PRODUCT DATA SHEET

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Linear Low Density Polyethylene

HF2508GX

Technical support:
Sasol Chemicals
North America LLC
12120 Wickchester Lane
Houston, TX 77079

Email:
PolymersTechnical@us.sasol.com

Sales office:
Sasol Chemicals
North America LLC
12120 Wickchester Lane
Houston, TX 77079
Telephone: (281) 588 3000
Email:
PolymersSales@us.sasol.com

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www.sasol.com

Melt Index: 0.8 g/10min

Density: 0.929 g/cm³

Features
- LLDPE Hexene copolymer
- Fractional melt index
- Good machinability

Applications
- Industrial heavy duty sacks
- Consumer trash can liners
- Thick and thin films

Additives
- Antioxidant
- TNPP Free
- Antiblock (6000 ppm)
- Processing Aid

Typical properties (not to be construed as specifications)		Value (English)	Value (SI)	Method
Resin Properties	Melt Index (190°C/2.16kg)	0.8 g/10min	0.8 g/10min	ASTM D1238
	Density	0.929 g/cm3	0.929 g/cm3	ASTM D792
	Base Density(1)	0.925 g/cm3	0.925 g/cm3	Sasol Method
Film Properties	Tensile strength at yield MD	2330 psi	16.1 MPa	ASTM D882
	Tensile strength at yield TD	2390 psi	16.5 MPa	ASTM D882
	Tensile strength at break MD	8860 psi	59.7 MPa	ASTM D882
	Tensile strength at break TD	6470 psi	44.6 MPa	ASTM D882
	Tensile Elongation at break MD	570%	570%	ASTM D882
	Tensile Elongation at break TD	840%	840%	ASTM D882
	1% Secant Modulus MD	43700 psi	302 MPa	ASTM D882
	1% Secant Modulus TD	47400 psi	327 MPa	ASTM D882
	Elmendorf Tear Strength MD	216 g/mil	216 g/25.4 µm	ASTM D1922
	Elmendorf Tear Strength TD	1016 g/mil	1016 g/25.4 µm	ASTM D1922
	Dart Drop Impact Strength	66 g/mil	66 g/25.4 µm	ASTM D1709A
	Haze	18%	18%	ASTM D1003
	Gloss (45°)	43%	43%	ASTM D2457

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

The above values were measured on a 0.8 mil (20 µm) film produced on a 2.5 in (63.5 mm) blown film extruder, using 453°F (234°C) melt temperature, with a 2.5:1 BUR, a die diameter of 6 in and a die gap of 70 mil (1.8 mm).

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 (<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:

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

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

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