+135-3858-6433 (GuangDong)
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Polyethylene LDPE FE 8000

Refining & Chemicals
Polymers

Technical data sheet
Low Density Polyethylene BLOWN FILM
Produced in Europe

Description

LDPE FE 8000 is a low density polyethylene produced by a high pressure autoclave process. This grade is particularly suitable for transparent thin film.

LDPE FE 8000 is suited to many applications in the field of consumer, industrial, food or hygiene packaging such as collation shrink, lamination and coextrusion film.

Characteristics

Property	Method	Unit	Typical value
Density	ISO 1183	g/cm³	0.924
Melt Flow Rate (190°C/2.16 kg)	ISO 1133	g/10 min	0.8
Melting temperature	ISO 11357	°C	111
Vicat temperature	ISO 306	°C	99

Values indicated are typical for this product. Density and MFR are properties routinely measured during "the standard quality control procedure". The other figures are generated by tests not included in the "standard quality control procedure", and are given for information only. Data are not intended for specification purposes.

Additives

LDPE FE 8000 doesn't contain antioxidant

Processing

Advised temperature profile: 160 to 200°C.

The possible range of film thickness is 35 to 150 µm, depending on extrusion conditions.

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Blown film properties

These values have been measured on a 40 µm blown film.

Property	Method	Unit	Typical value
Tensile Strength at Yield MD/TD	ISO 527-3	MPa	12/12
Tensile Strength at Break MD/TD	ISO 527-3	MPa	27/23
Elongation at Break MD/TD	ISO 527-3	%	370/570
Elmendorf MD/TD	ISO 6383-2	N/mm	53/47
Dart test	ISO 7765-1	g	120
Haze	ISO 14782	%	11

(*) Figures stated hereabove are obtained using laboratory test specimens produced with the following extrusion conditions: 45 mm screw diameter, L/D = 30, die diameter = 120 mm, die gap = 1.4 mm, BUR = 2.5:1, temperature = 200°C.