

Low density polyethylene (LDPE)

Lotrène® FE3000
 Qatar Petrochemical Company, Qatar

PROPERTIES

Description	Lotrène® FE3000 is an additive free grade produced by a tubular high pressure process mainly recommended for heavy duty film applications. Lotrène® FE3000 is offering high strength combined with good optical properties. Lotrène® FE3000 has a molecular structure allowing to produce films with excellent optical properties, very good shrink properties and good mechanical properties.
Applications	Heavy duty bags, industrial shrink film, construction film, agricultural film.
Processing	Lotrène® FE3000 can be easily processed on all types of extruders designed for polyethylene. The melt temperature is suggested to be in the range of 180-210 °C. The best and balanced properties of the blown film are achieved at blow up ratios between 2.0: 1 and 3.5:1. The recommended thickness range is from 40 µm to 200 µm.
Additives	NO.

Melt Flow Index	g/10min	0.30	ASTM D-1238
Density @ 23 °C	g/cm ³	0.923	ASTM D-792
Crystalline Melting Point	°C	112	ASTM E-794
Vicat Softening Point	°C	99	ASTM D-1525
Tensile Strength @ Yield MD/TD	MPa	12/126	ASTM D-882
Tensile Strength @ Break MD/TD	MPa	35/29	ASTM D-882
Elongation @ Break MD/TD	%	400/600	ASTM D-882
Tear resistance MD/TD	N/mm	47/47	ASTM D-1922
Impact Strength, F 50	g	150	ASTM D-1709
Puncture Force	N	62	Internal Method
Coefficient Of friction		0.75	ASTM D-1894
Haze	%	8	ASTM D-1003
Gloss (@ 45)		56	ASTM D-2457

These are typical properties: not to be construed as specification.