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LDPE/2020/FD0474

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FD0474

Low Density Polyethylene

DESCRIPTION

Lotrène® FD0474 is mainly recommended for the extrusion of very high clarity blown and cast films. It contains both slip additives (target 600 ppm erucamide) and anti blocking additives (target 900 ppm) as well as antioxidants.

PROPERTIES

The molecular structure of Lotrène® FD0474 provides excellent clarity, high gloss and low haze films. This structure also leads to excellent processability.

POLYMER PROPERTIES	VALUE	UNIT	TEST METHOD
Melt Flow Index	4.0	g/10 min.	ASTM D1238-
Density @ 23 °C	0.923	g/cm3	ASTM D1505-
Crystalline Melting Point	108	°C	ASTM E794-
Vicat Softening Point	87	°C	ASTM D1525-

FILM PROPERTIES	VALUE	UNIT	TEST METHOD
Tensile Strength @ Yield MD/ TD	11/11	MPa	ASTM D882-
Tensile Strength @ Break MD/ TD	23/20	MPa	ASTM D882-
Elongation @ Break MD/ TD	335/610	%	ASTM D882-
Impact Strength, F 50	90	g	ASTM D1709-
Tear resistance MD/ TD	75/40	N/mm	ASTM D- 1922
Coefficient Of friction	0.09		ASTM D1894
Haze	7	%	ASTM D1003-
Gloss @ °45	63	-	ASTM D2457-

(Film properties stated above have been obtained using 40 µm blown films laboratory test specimens produced under following conditions: 45 mm screw with L/D = 30, die diameter 120 mm, die gap 1.56 mm, BUR 2.5:1).

PROCESSING

Lotrène® FD0474 can be easily processed on all types of extruders designed for polyethylene.

The melt temperature is suggested to be in the range of 150-140 °C.

The best properties of the blown film are achieved at blow up ratios between 2:1 and 3:1.

The recommended thickness range is from 15 µm to 100 µm.