

FILM GRADES

Lotrène
Low Density Polyethylene



PROPERTIES	TEST METHOD	UNIT	FA 0234	FD 0270	FD 0274	FD 0374	FD0474	FD 0574
POLYMER PROPERTIES								
Density @ 23°C	ASTM D-1505	g/cm ³	0.920	0.923	0.923	0.922	0.923	0.922
Melt Flow Index	ASTM D-1238	g/10 min.	1.8	2.4	2.4	3.5	4.0	5.0
Vicat Softening Point	ASTM D-1525	°C	94	94	94	93	93	92
Crystalline Melting Point	ASTM E- 794	°C	108	111	111	109	112	109
ADDITIVES								
Antioxidant	Internal Method	level	Present	-	Present	Present	Present	Present
Slip Agent	Internal Method	level	Medium	-	Medium	Medium	Medium	Medium
Antiblocking	Internal Method	level	Medium	-	High	High	High	High
FILM PROPERTIES								
Recommended Thickness		µm	30 - 100	25 - 100	25 - 100	20 - 100	15 - 100	15 - 100
OPTICAL PROPERTIES								
Haze	ASTM D-1003	%	10	6.5	6.5	8	6	7
Gloss (@ 45°)	ASTM D-2457	gu	55	75	75	65	80	75
Clarity	ASTM D-1746	%	50	85	85	70	90	75
MECHANICAL PROPERTIES								
Tensile Strength @ yield	ASTM D-882	MPa	MD/TD : 14/11	MD/TD : 12/11	MD/TD : 14/11	MD/TD : 12/10	MD/TD : 15/11	MD/TD : 11/12
Tensile Strength @ break	ASTM D-882	MPa	MD/TD : 22/20	MD/TD : 22/20	MD/TD : 22/21	MD/TD : 19/21	MD/TD : 18/15	MD/TD : 17/16
Elongation @ break	ASTM D-882	%	MD/TD : 400/500	MD/TD : 550/600	MD/TD : 470/570	MD/TD : 450/550	MD/TD : 400/550	MD/TD : 450/550
Impact Strength, F50	ASTM D-1709	g	135	110	110	130	100	120
Coefficient of Friction	ASTM D-1894		0.10	0.45	0.10	0.09	0.12	0.09
PROPERTIES			<ul style="list-style-type: none"> • Good mechanical properties • Good optical properties • Good stretchability 	<ul style="list-style-type: none"> • Good balance of transparency and strength • Good shrink properties 	<ul style="list-style-type: none"> • High strength and clarity 	<ul style="list-style-type: none"> • Very good transparency • Very good draw down 	<ul style="list-style-type: none"> • Excellent clarity • Excellent draw down 	<ul style="list-style-type: none"> • Very good optical properties • Excellent draw down
APPLICATIONS			<ul style="list-style-type: none"> • General purpose bags • Foamed products • Mulch film • Blister film 	<ul style="list-style-type: none"> • Thin shrink film • Foamed products • Lamination film 	<ul style="list-style-type: none"> • Thin transparent film • Food packaging • High clarity bags • Lamination film 	<ul style="list-style-type: none"> • Bread bags • Display film • Garment & news-paper packaging 	<u>High clarity film for packaging:</u> <ul style="list-style-type: none"> - Flowers - Clothing - Frozen food - Diary products • Display film • Laundry film 	<u>Packaging film for:</u> <ul style="list-style-type: none"> - Textiles - Stationary - Clothing - Laundry film • Food packaging

(The above properties are measured on blown film of 50 micron @ 2.5 BUR)

Note: The values given in this sheet are the results of tests carried out in accordance with standard test procedure. They are given as an indication to enable customers to make the best of our products, but must be considered as average values provided without any undertaking on our part.