

## FILM, PIPE AND BLOW MOLDING GRADES

# Lotrène

Low Density Polyethylene



PROPERTIES	TEST METHOD	UNIT	FB 3003	FB 5026	FE 8000	FD 0174
<b>POLYMER PROPERTIES</b>						
Density @ 23°C	ASTM D-1505	g/cm <sup>3</sup>	0.920	0.920	0.923	0.923
Melt Flow Index	ASTM D-1238	g/10 min.	0.30	0.60	0.80	1.2
Vicat Softening Point	ASTM D-1525	°C	95	93	95	95
Crystalline Melting Point	ASTM E- 794	°C	109	108	112	112
<b>ADDITIVES</b>						
Antioxidant	Internal Method	level	-	-	-	Present
Slip Agent	Internal Method	level	-	Low	-	Medium
Antiblocking	Internal Method	level	-	-	-	Medium
<b>FILM PROPERTIES</b>						
Recommended Thickness		µm	50 - 250	40 - 200	30 - 200	30 - 200
<b>OPTICAL PROPERTIES</b>						
Haze	ASTM D-1003	%	13	11	8.5	8.5
Gloss (@ 45°)	ASTM D-2457	gu	40	45	60	70
Clarity	ASTM D-1746	%	25	45	45	50
<b>MECHANICAL PROPERTIES</b>						
Tensile Strength @ yield	ASTM D-882	MPa	MD/TD : 16/11	MD/TD : 14/11	MD/TD : 16/12	MD/TD : 19/12
Tensile Strength @ break	ASTM D-882	MPa	MD/TD : 25/25	MD/TD : 24/24	MD/TD : 24/22	MD/TD : 22/17
Elongation @ break	ASTM D-882	%	MD/TD : 550/600	MD/TD : 550/600	MD/TD : 500/600	MD/TD : 370/500
Impact Strength, F50	ASTM D-1709	g	220	200	150	150
Coefficient of Friction	ASTM D-1894		0.5	0.20	0.45	0.2
<b>PROPERTIES</b>			<ul style="list-style-type: none"> <li>• Excellent mechanical properties</li> <li>• Good shrink properties</li> <li>• High ESCR</li> </ul>	<ul style="list-style-type: none"> <li>• Very good mechanical properties</li> <li>• Good optical properties</li> </ul>	<ul style="list-style-type: none"> <li>• Good combination of high mechanical &amp; optical properties</li> <li>• Good shrink properties</li> <li>• High draw down</li> </ul>	<ul style="list-style-type: none"> <li>• Good mechanical properties</li> <li>• Good optical properties</li> <li>• High draw down</li> </ul>
<b>APPLICATIONS</b>			<ul style="list-style-type: none"> <li>• Agricultural film</li> <li>• Industrial shrink film</li> <li>• Heavy duty bags</li> <li>• Construction film</li> <li>• Drip irrigation pipe</li> <li>• Cable jacketing</li> <li>• Blow moulded bottles (&lt;250ml)</li> </ul>	<ul style="list-style-type: none"> <li>• Milk bags (pouches)</li> <li>• Heavy duty carrier bags</li> <li>• Industrial liners</li> </ul>	<ul style="list-style-type: none"> <li>• Shrink wrap film for light &amp; medium duties</li> <li>• Shopping bags</li> <li>• Lamination film</li> </ul>	<ul style="list-style-type: none"> <li>• General purpose bags</li> <li>• Food packaging</li> <li>• Liners</li> </ul>

(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 use of our products, but must be considered as average values provided without any undertaking on our part.