



EXPERIENCE CREDIBLE PROCESS

## Low Density Polyethylene Specification

### Grade 1 ( Film Grade, LFI 2130 )

Supplier 1

NO.	Typical Properties	Typical Value <sup>1</sup>	Unit	Test Method
	<b>Physical</b>			
1	MFI (190 °C / 12.16 kg)	0.3	g/10 min	ISO 1133
2	Density <sup>2</sup>	921	g/cm <sup>3</sup>	ISO 1183(A)
	<b>Mechanical <sup>3</sup></b>			
3	Impact Strength	31	KJ/m	ASTM D4272
4	Tear Strength (TD)	45	KN/m	ISO 6383-2
5	Tear Strength (MD)	20	KN/m	ISO 6383-2
4	Yield Stress (TD)	10	MPa	ISO 527-1,3
5	Yield Stress (MD)	11	MPa	ISO 527-1,3
6	Tensile Stress at Break (TD)	24	MPa	ISO 527-1,3
7	Tensile Stress at Break (MD)	22	MPa	ISO 527-1,3
8	Strain at Break (TD)	>500	%	ISO 527-1,3



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## Grade 2 ( Film Grade, LFI 2119 )

### Supplier 1

NO.	Typical Properties	Typical Value <sup>1</sup>	Unit	Test Method
<b>Physical</b>				
1	MFI (190 °C / 12.16 kg)	1.9	g/10 min	ISO 1133
2	Density <sup>2</sup>	921	g/cm <sup>3</sup>	ISO 1183(A)
<b>Mechanical <sup>3</sup></b>				
3	Impact Strength	26	KJ/m	ASTM D4272
4	Tear Strength (TD)	25	KN/m	ISO 6383-2
5	Tear Strength (MD)	60	KN/m	ISO 6383-2
4	Yield Stress (TD)	11	MPa	ISO 527-1,3
5	Yield Stress (MD)	13	MPa	ISO 527-1,3
6	Tensile Stress at Break (TD)	20	MPa	ISO 527-1,3
7	Tensile Stress at Break (MD)	35	MPa	ISO 527-1,3
8	Strain at Break (TD)	>500	%	ISO 527-1,3





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## Grade 3 (Injection Grade, LIM 1922 )

Supplier 1

NO.	Typical Properties	Typical Value <sup>1</sup>	Unit	Test Method
<b>Physical</b>				
1	MFI (190 °C / 12.16 kg)	22	g/10 min	ISO 1133
2	Density <sup>2</sup>	919	g/cm <sup>3</sup>	ISO 1183(A)
<b>Mechanical <sup>3</sup></b>				
3	Impact Strength	31	kJ/m	ASTM D4272
4	Tear Strength (TD)	45	kJ/m	ISO 6383-2
5	Tear Strength (MD)	20	kJ/m	ISO 6383-2
4	Modulus of Elasticity	175	MPa	ISO 527-1,2
5	Tensile Stress at yield	8	MPa	ISO 527-1,2
6	Tensile Stress at Break	7	MPa	ISO 527-1,2
7	Creep Modulus (After 1 hour)	80	MPa	ISO 899
8	Tensile Strain at Break	400	%	ISO 527-1,2

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