



LDPE (LTM 2119X)

Physical Properties	UNIT	Value	TEST METHOD
MFI (190 OC /2 .16 Kg)	dg/min	1.9	ISO 1133
Density	Kg/m3	921	ISO 1183 (A)
Mechanical properties			
Impact strength	KJ/m	26	ASTM D 4272
Tear strength (TD)	KN/m	25	ISO 6383-2
Tear Strength (MD)	KN/m	60	ISO 6383-2
Yield stress (TD)	MPa	11	ISO 527
Yield stress (MD)	MPa	13	ISO 527
Tensile stress at break (TD)	MPa	20	ISO 527
Tensile stress at break (MD)	MPa	35	ISO 527
Strain at Break (TD)	%	>500	ISO 527
Strain at Break (MD)	%	>150	ISO 527
Modulus of Elasticity (TD)	MPa	200	ISO 527
Modulus of Elasticity (MD)	MPa	190	ISO 527
Coefficient of friction		>1	ASTM D 1894
Blocking	g	20	SABTEC method
Re-blocking	g	100	SABTEC method
Optical properties			
Haze	%	9	ASTM D 1003A
Gloss (45o)	%	55	ASTM D 2457
Clarity	mV	26	SABTEC method

APPLICATION

Additive

Antioxidant

LTM 2119X is suitable for general purpose film and for lamination



LDPE (LTM 2047/37)

Physical Properties	UNIT	Value	TEST METHOD
MFI (190 OC /2 .16 Kg)	dg/min	4.7	ISO 1133
Density	Kg/m3	920	ISO 1183 (A)
Mechanical properties			
Impact strength	KJ/m	15	ASTM D 4272
Tear strength (TD)	KN/m	25	ISO 6383-2
Tear Strength (MD)	KN/m	80	ISO 6383-2
Yield stress (TD)	MPa	11	ISO 527
Yield stress (MD)	MPa	12	ISO 527
Tensile stress at break (TD)	MPa	15	ISO 527
Tensile stress at break (MD)	MPa	27	ISO 527
Strain at Break (TD)	%	>500	ISO 527
Strain at Break (MD)	%	100	ISO 527
Modulus of Elasticity (TD)	MPa	200	ISO 527
Modulus of Elasticity (MD)	MPa	200	ISO 527
Coefficient of friction		0.2	ASTM D 1894
Blocking	g	20	SABTEC method
Re-blocking	g	10	SABTEC method
Optical properties			
Haze	%	9	ASTM D 1003A
Gloss (45o)	%	55	ASTM D 2457
Clarity	mV	21	SABTEC method

APPLICATION

Additive

Antioxidant , Slip agent, Anti blocking agent

thin film, requiring very good optical properties and thus very suitable for laundry and textile packaging



LDPE LH0075

FILM GRADE

Property	Test Method	Value	Unit
MFI (190°C/2.16KG)	ASTM D-1238	0.68-0.85	gr/10 min
DENSITY	TSTM 209 B	0.917-0.922	gr/ml
Vicat SOFTENING Temp	ASTM D-1525	93-97	°C
Elongation @Break(MD)	ASTM D-882	300 min	%
Elongation @Break(TD)	ASTM D-882	450 min	%
tensile @Break (MD)	ASTM D-882	170 min	kg/cm2
HDT	ASTM D-648	30-36	°C
Dart Impact	ASTM D-1709	120 min	gr

APPLICATION

film & small bag

TSTM= TOYO SODA STANDARD TESTMETHOD
HDT= HEAD DEFLECTION TEMPERATURE



LDPE (LTM 2125/37)

Physical Properties	UNIT	Value	TEST METHOD
MFI (190 OC /2 .16 Kg)	dg/min	2.5	ISO 1133
Density	Kg/m3	921	ISO 1183 (A)
Mechanical properties			
Impact strength	KJ/m	23	ASTM D 4272
Tear strength (TD)	KN/m	25	ISO 6383-2
Tear Strength (MD)	KN/m	70	ISO 6383-2
Yield stress (TD)	MPa	11	ISO 527
Yield stress (MD)	MPa	13	ISO 527
Tensile stress at break (TD)	MPa	19	ISO 527
Tensile stress at break (MD)	MPa	30	ISO 527
Strain at Break (TD)	%	>500	ISO 527
Strain at Break (MD)	%	>100	ISO 527
Modulus of Elasticity (TD)	MPa	180	ISO 527
Modulus of Elasticity (MD)	MPa	190	ISO 527
Coefficient of friction		0.2	ASTM D 1894
Blocking	g	<5	SABTEC method
Re-blocking	g	0	SABTEC method
Optical properties			
Haze	%	9	ASTM D 1003A
Gloss (45o)	%	60	ASTM D 2457
Clarity	mV	30	SABTEC method

APPLICATION

Additive

Antioxidant , Slip agent, Anti blocking agent

packaging films and is especial suitable when ultimate down gauging is required.



LDPE (ITI 2130)

Physical Properties	UNIT	Value	TEST METHOD
MFI (190 OC /2 .16 Kg)	dg/min	0.3	ISO 1133
Density	Kg/m3	921	ISO 1183 (A)
Mechanical properties			
Impact strength	KJ/m	31	ASTM D 4272
Tear strength (TD)	KN/m	45	ISO 6383-2
Tear Strength (MD)	KN/m	20	ISO 6383-2
Yield stress (TD)	MPa	10	ISO 527
Yield stress (MD)	MPa	11	ISO 527
Tensile stress at break (TD)	MPa	24	ISO 527
Tensile stress at break (MD)	MPa	22	ISO 527
Strain at Break (TD)	%	>500	ISO 527
Strain at Break (MD)	%	>350	ISO 527
Modulus of Elasticity (TD)	MPa	150	ISO 527
Modulus of Elasticity (MD)	MPa	140	ISO 527
Coefficient of friction		0.7	ASTM D 1894
Blocking	g	<5	SABTEC method
Re-blocking	g	20	SABTEC method
Optical properties			
Haze	%	12	ASTM D 1003A
Gloss (45o)	%	55	ASTM D 2457
Clarity	mV	50	SABTEC method

APPLICATION

Additive

Antioxidant

general packaging applications, particularly those requiring a measure of shrink



LDPE (LTL 2185)

Physical Properties	UNIT	Value	TEST METHOD
MFI (190 OC /2 .16 Kg)	dg/min	0.85	ISO 1133
Density	Kg/m3	921	ISO 1183 (A)
Mechanical properties			
Impact strength	KJ/m	28	ASTM D 4272
Tear strength (TD)	KN/m	30	ISO 6383-2
Tear Strength (MD)	KN/m	40	ISO 6383-2
Yield stress (TD)	MPa	11	ISO 527
Yield stress (MD)	MPa	12	ISO 527
Tensile stress at break (TD)	MPa	21	ISO 527
Tensile stress at break (MD)	MPa	24	ISO 527
Strain at Break (TD)	%	>500	ISO 527
Strain at Break (MD)	%	>200	ISO 527
Modulus of Elasticity (TD)	MPa	170	ISO 527
Modulus of Elasticity (MD)	MPa	160	ISO 527
Coefficient of friction		1	ASTM D 1894
Blocking	g	40	SABTEC method
Re-blocking	g	140	SABTEC method
Optical properties			
Haze	%	9	ASTM D 1003A
Gloss (45o)	%	60	ASTM D 2457
Clarity	mV	27	SABTEC method

APPLICATION

thin shrink film

Additive

Antioxidant



LDPE (LTM 2447/47)

Physical Properties	UNIT	Value	TEST METHOD
MFI (190 OC /2 .16 Kg)	dg/min	4.7	ISO 1133
Density	Kg/m3	924	ISO 1183 (A)
Mechanical properties			
Impact strength	KJ/m	13	ASTM D 4272
Tear strength (TD)	KN/m	30	ISO 6383-2
Tear Strength (MD)	KN/m	90	ISO 6383-2
Yield stress (TD)	MPa	13	ISO 527
Yield stress (MD)	MPa	13	ISO 527
Tensile stress at break (TD)	MPa	16	ISO 527
Tensile stress at break (MD)	MPa	27	ISO 527
Strain at Break (TD)	%	>450	ISO 527
Strain at Break (MD)	%	>100	ISO 527
Modulus of Elasticity (TD)	MPa	250	ISO 527
Modulus of Elasticity (MD)	MPa	230	ISO 527
Coefficient of friction		0.2	ASTM D 1894
Blocking	g	<5	SABTEC method
Re-blocking	g	20	SABTEC method
Optical properties			
Haze	%	9	ASTM D 1003A
Gloss (45o)	%	55	ASTM D 2457
Clarity	mV	28	SABTEC method

APPLICATION

Additive / Antioxidant , Slip agent, Anti blocking agent

stiffer thin films for textile packaging



LDPE (LTL 2185/47)

Physical Properties	UNIT	Value	TEST METHOD
MFI (190 OC /2 .16 Kg)	dg/min	0.85	ISO 1133
Density	Kg/m3	921	ISO 1183 (A)
Mechanical properties			
Impact strength	KJ/m	30	ASTM D 4272
Tear strength (TD)	KN/m	30	ISO 6383-2
Tear Strength (MD)	KN/m	40	ISO 6383-2
Yield stress (TD)	MPa	11	ISO 527
Yield stress (MD)	MPa	12	ISO 527
Tensile stress at break (TD)	MPa	21	ISO 527
Tensile stress at break (MD)	MPa	24	ISO 527
Strain at Break (TD)	%	>500	ISO 527
Strain at Break (MD)	%	>200	ISO 527
Modulus of Elasticity (TD)	MPa	170	ISO 527
Modulus of Elasticity (MD)	MPa	160	ISO 527
Coefficient of friction		0.1	ASTM D 1894
Blocking	g	10	SABTEC method
Re-blocking	g	30	SABTEC method
Optical properties			
Haze	%	11	ASTM D 1003A
Gloss (45o)	%	55	ASTM D 2457
Clarity	mV	37	SABTEC method

APPLICATION

shrink package

Additive

Antioxidant , Slip agent, Anti blocking agent



LDPE (LTL 2575)

Physical Properties	UNIT	Value	TEST METHOD
MFI (190 OC /2 .16 Kg)	dg/min	0.75	ISO 1133
Density	Kg/m3	925	ISO 1183 (A)
Mechanical properties			
Impact strength	KJ/m	20	ASTM D 4272
Tear strength (TD)	KN/m	30	ISO 6383-2
Tear Strength (MD)	KN/m	35	ISO 6383-2
Yield stress (TD)	MPa	12	ISO 527
Yield stress (MD)	MPa	12	ISO 527
Tensile stress at break (TD)	MPa	25	ISO 527
Tensile stress at break (MD)	MPa	28	ISO 527
Strain at Break (TD)	%	>500	ISO 527
Strain at Break (MD)	%	>200	ISO 527
Modulus of Elasticity (TD)	MPa	200	ISO 527
Modulus of Elasticity (MD)	MPa	190	ISO 527
Coefficient of friction		0.7	ASTM D 1894
Blocking	g	<5	SABTEC method
Re-blocking	g	20	SABTEC method
Optical properties			
Haze	%	11	ASTM D 1003A
Gloss (45o)	%	50	ASTM D 2457
Clarity	mV	34	SABTEC method

APPLICATION

Additive

Antioxidant

diaper film, lamination film and in applications where low blocking behavior without the help of additives is required