EL-Lene™

LOW DENSITY POLYETHYLENE

EL-Lene LDPE is a l
developed by ICI Co., Lt

This highly efficient metl
high strength and tear resist
For laminated work, a low ne
Injection molding products a
food and drugs.

PROPERTIES	UNITS	TESTING METHODS	FILM				
			LD1902F	LD1902FA	LD2305F	LD1905F	LD
MELT FLOW RATE AT 190°C, 2.16 kg	g/10 min.	ASTM D1238	2.0	2.0	3.5	5.0	
DENSITY	g/cm³	ASTM D1505	0.919	0.919	0.923	0.919	
DENSITY (COMPOUND)	g/cm³	ASTM D1505	-	-	-	-	
TENSILE STRENGTH AT YIELD	kg/cm²	ASTM D882 (FILM / COATING) ASTM D638 (INJECTION / WIRE & CABLE)	MD : - , TD : 120*	MD : - , TD : 120*	MD : - , TD : 95*	MD : - , TD : 100*	MD :
TENSILE STRENGTH AT BREAK	kg/cm²		MD : 230* , TD : 190*	MD : 230* , TD : 190*	MD : 240*, TD : 190*	MD : 200*, TD : 150*	MD : 2
TENSILE MODULUS, 2% SECANT	kg/cm²		MD : 2,500*, TD : 2,800*	MD : 2,500* , TD : 2,800*	MD : 2,600* ,TD : 2,500*	MD : 1,700* ,TD : 1,900*	MD : 1,
ELONGATION AT BREAK	%		MD : 260* , TD : 720*	MD : 260*, TD : 840*	MD : 300*, TD : 550*	MD : 400*, TD : 700*	MD : 4
ELEMENDOFT TEAR STRENGTH	g/25 micron	ASTM D1922	MD : 370* , TD : 100*	MD : 370*, TD : 100*	MD : 400*, TD : 275*	MD : 370*, TD : 210*	MD : 3
DART IMPACT STRENGTH	g	ASTM D1709	150*	150*	78*	130*	
FLEXURAL MODULUS	kg/cm²	ASTM D790	-	-	-	-	
IZO IMPACT STRENGTH AT 23°C	kg-cm/cm	ASTM D256	-	-	-	-	
HARDNESS, SHORE D	-	ASTM D2240	-	-	-	-	
HAZE	%	ASTM D1003	9*	6*	5*	7*	
GLOSS	%	ASTM D2457	50*	55*	78*	55*	
MELTING POINT	°C	ASTM D2117	110	110	110	110	
VICAT SOFTENING POINT	°C	ASTM D1525	92	92	92	92	
BRITTLENESS TEMPERATURE	°C	ASTM D746	<-70	<-70	<-70	<-70	
ENVIRONMENTAL STRESS CRACKING RESISTANCE AT 50°C	hrs	ASTM D1693	-	-	-	-	
CARBON BLACK CONTENT	% wt	ASTM D1603	-	-	-	-	
OXIDATION INDUCTION TIME	min	ISO/TR10837@200°C	-	-	-	-	
DIELECTRIC CONSTANT	1 MHz	ASTM D1531	-	-	-	-	
DISSIPATION FACTOR	1 MHz	ASTM D1531	-	-	-	-	
DC VOLUME RESISTIVITY	ohm.cm	ASTM D257	-	-	-	-	
DIELECTRIC STRENGTH	kV/mm.	ASTM D149	-	-	-	-	
% SHRINKAGE MD (2 mmt)	%	TPE METHOD	-	-	-	-	
% SHRINKAGE TD (2 mmt)	%	TPE METHOD	-	-	-	-	
APPLICATIONS			General purpose bag, big bag.	General purpose bag, big bag, medium- weight shrink film.	Zip bags, general purpose film such as food packaging.	General purposebag, vegetable and fruit bag.	Gener vege bag, shee
CHARACTERISTICS			High strength, good optical properties, can be blended with HDPE, LLDPE, food contact applicable, slip content 1400 ppm, antiblock content 2400 ppm.	High strength, good optical properties, can be blended with HDPE, LLDPE, food contact applicable.	Excellent clarity and gloss, good zip formation, good openability, slip content 1000 ppm, antiblock content 500 ppm.	High productivity, good optical properties, can be bledned with HDPE, LLDPE, slip content 1500 ppm, antiblock content 2600 ppm.	High optic can with

* *Properties of film at 38 micron (B.U.R. 2:1)*
** *Properties of Specimen thickness 1 mm.*
MD : Machine Direction, TD : Transverse Direction

Note : The physical property data contained in this catalog are those obtained as sales specifications. Neither will they be identical to properties measured from

ow density polyethylene resin produced by the autoclave process, a technology d., England.

od makes EL-Lene LDPE consistently reliable in the production of plastic films that have ance, clear, smooth, and shiny surface, easily opened, and possessing good seal strength. k-in reduces loss of the sides of the bag, and adherence between surfaces is dependable. re also durable, not easily ripped, with beautiful surfaces, and safe for storing or packaging

	EXTRUSION COATING		INJECTION MOLDING		WIRE & CABLE
1905FA	D795C	D777C	LD1630J	LD1450J	LD2130CC
5.0	9.0	7.0	30	50	0.3
0.919	0.918	0.918	0.916	0.914	0.921
-	-	-	-	-	0.932
-, TD : 100*	MD : -, TD : 95*	MD : 190*, TD : 110*	90	100	100
00*, TD : 150*	MD : 160*, TD : 150*	MD : 190*, TD : 140*	90	110	>150
00*, TD : 1,900*	MD : 1,860*, TD : 2,350*	MD : 2,040*, TD : 2,290*	-	-	-
00*, TD : 700*	MD : 250*, TD : 650*	MD : 375*, TD : 570*	450	500	>600
70*, TD : 210*	MD : 280*, TD : 120*	MD : 280*, TD : 120*	-	-	-
130*	72*	76*	-	-	-
-	-	-	1,700	1,600	2,550
-	-	-	Non Break	Non Break	91
-	-	-	47	45	53
6*	9*	9*	14**	16**	-
65*	35*	35*	76**	74**	-
110	107	107	105	103	-
92	85	85	85	85	-
<-70	<-70	<-70	<-70	<-70	<-75
-	-	-	-	-	>1,000 (F_{20}, 10% Igepal)
-	-	-	-	-	2.5
-	-	-	-	-	> 80
-	-	-	-	-	2.5
-	-	-	-	-	0.005
-	-	-	-	-	10^{16}
-	-	-	-	-	20
-	-	-	2.23	1.91	-
-	-	-	1.67	1.82	-
l purposebag, able and fruit oam, bubble t, shoe sole.	For coating on paper plastic, aluminium foil and tarpaulin, for laminated film.	General extrusion coating, extrusion lamination, co-extrusion coating. For coating on different substrates; Aluminium foil, Paper, tarpaulin and flexible films.	Housewares, small to large closure, base resin for powder coating application, toy parts, masterbach carrier.	Small to large closure, base resin for powder coating application toy parts, masterbach carrier, artificial flower.	Jacketing of communication cables, Jacketing of power cables.
productivity, good l properties, be bledned DPE, LLDPE.	Good processability, low neck-in, good web stebillity, good adhesion on aluminium foil, plastic, paper and tarpaulin, low seal initation temperature with good seal strength and hot tack, high gloss.	Very low neck-in, good adhesion on substrates, good seal strength and hot tack, Low seal initiation temperature.	Good flowability for multicavities, good toughness and flexibility, excellent gloss and transparency, odorless and food contact.	Good flowability for multicavities, good toughness and flexibility, excellent gloss and transparency, odorless and food contact.	Excellent environmental stress cracking resistance (ESCR), high mechanical properties, good extrudability.

under controlled conditions in laboratories of each technology owner. These properties are not be used inished products manufactured with our resins since conditions used in manufacturing cannot be controlled.