



Linear Low Density Polyethylene (LLDPE)

1) LL0410AA and LL0410KJ(contains slip agent) are LLDPE copolymers with butene as comonomer.They are suitable for blending with the conventional LDPE.In lean blends, they offer the following advantages compared to LDPE neat:

- Greater drawdown
- Improved hot-tack and lower seal shrinkage
- Higher stiffness and toughness
- LL0410KJ offers high slip film with easy opening properties

2) LL0209AA and LL0209KJ(contains slip agent) are LLDPE copolymers with butene as comonomer.They are suitable for blending with the conventional LDPE.Film made of pure LL0209AA has the following advantage over conventional LDPE:

- Better sealing
- High gloss
- Better optical properties (KJ code)

3)LL0220AA and LL0220KJ(contains slip agent) are LLDPE copolymers with butene as comonomer.This grade is suitable for light duty applications and for the production of cast stretch films

Grade	MFI (gr/10min)	Applications
LL0410	0.9	Shrink &FFS &agriculture film & shrinks of all types
LL0209	0.9	Transparent packaging (kj code) - Lamination film
LL0220	2.2	Light & medium duty film, stretch film



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LL235F7	0.7	Blown film, Lamination
LL16501	0.95	liner
LL22501	0.95	Blown film
LL22502	1.8	Blown film
LL16502	2	Cast
LL16503	3	Cast
LL12XF6	0.6	Blown film
LL14ZF8	0.75	Blown film
LL14XF9	0.9	Blown film, Lamination
LL12X01	0.95	Blown film
LL14X01	0.95	Blown film
LL11X02	2	Blown film
LL09X02	2.2	Cast film grade
LL20X02	2.5	Bread bags, Cast film grade
LL12YF6	0.6	liner
LL15YF8	0.77	Blown film
LL14Y01	1.1	Blown film, thin film
LL10Y02	2.2	Stretch Cast
LL20516	16	Injection



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Linear Low Density Polyethylene (LLDPE)

PRODUCERS: Tabriz Petrochemical Complex (TPC), Amir kabir Petrochemical Complex , Jam Petrochemical Complex

property	Melt index (190°C /2.16kg)	Density 23° c	Elongation @ break	Tensile strength @ break	Tensile strength @ yield	Dart drop Impact	VSP	Haze	GLOSS@45	Tear strength
Method	ASTM D- 1238	ASTM D- 1505	ASTM D- 882	ASTM D- 882	ISO 1184	ASTM D- 1709	ASTM D- 1525	ASTM 1003- A.61	ASTM D2457- 70	ASTM D1922
Unit	gr/10min	gr/cm3	%	MPa	MPa	gr	°C	%	%	gr/25μ
LL0410	0.9	0.925	MD:630min TD:800min	MD:35min TD:28min	MD:12min TD:13min	90 min.	105	13	48	MD:80 TD:350
LL0209	0.9	0.920	MD:630min TD:800min	MD:35min TD:28min	MD:10min TD:11 min	130 min	-	-	-	MD:80 TD:430
LL0220	2.2	0.920	MD:600min TD:800min	MD:36min TD:28min	MD:10min TD:11 min	130 min.	93	-	-	MD:110 TD:300
LL235F7	0.7	0.923	MD:600min TD:750min	MD:43min TD:32min	MD:12min TD:15min	70 min	-	17	37	MD:680 TD:780
LL16501	0.95	0.916	MD:670min TD:770min	MD:42min TD:33min	MD:12.7min TD:12.7min	105min	-	25	35	MD:680 TD:781
LL22501	0.95	0.923	MD:680min TD:780min	MD:45min TD:30min	MD:13min TD:12.5min	80min	-	21	38	MD:680 TD:782
LL22502	1.8	0.916	MD:600min TD:700min	MD:40min TD:32min	MD:12min TD:11.5min	70min	-	21	38	MD:680 TD:783
LL16502	2	0.916	MD:520min TD:800min	MD:51min TD:24min	MD:11.8min TD:10.1min	70min	-	2.1	86	MD:680 TD:784
LL16503	3	0.916	MD:500min TD:800min	MD:52min TD:24min	MD:11.8min TD:10min	65min	-	2	88	MD:680 TD:785



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LL12XF6	0.6	0.912	MD:600min TD:760min	MD:43min TD:35min	MD:11.5min TD:11.2min	175min	-	42	35	MD:680 TD:786
LL14ZF8	0.75	0.915	MD:580min TD:680min	MD:36min TD:28min	MD:11min TD:10.9min	120min	-	25	30	MD:680 TD:787
LL14XF9	0.9	0.915	MD:680min TD:760min	MD:40min TD:35min	MD:10.7min TD:10.8min	110min	-	18	42	MD:680 TD:788
LL12X01	0.95	0.912	MD:675min TD:770min	MD:37.5min TD:30.5min	MD:10.8min TD:10.8min	120min	-	40	20	MD:680 TD:789
LL14X01	0.95	0.914	MD:590min TD:885min	MD:51min TD:40min	MD:13.5min TD:12.1min	100min	-	19	46	MD:140 TD:360
LL11X02	2	0.911	MD:715min TD:765min	MD:29.5min TD:25min	MD:10.5min TD:9.5min	120min	-	22	38	MD:180 TD:400
LL09X02	2.2	0.909	MD:640min TD:880min	MD:50min TD:32min	MD:9.6min TD:8.8min	100min	-	2.6	84	MD:80 TD:320
LL20X02	2.5	0.9200	-	-	-	30min	-	4	75	MD:30 TD:210
LL12YF6	0.6	0.912	MD:560min TD:690min	MD:45min TD:37min	MD:11.2min TD:10.5min	400min	-	39	27	MD:330 TD:540
LL15YF8	0.77	0.915	MD:700min TD:860min	MD:35min TD:33min	MD:12.5min TD:13.4min	150min	-	18	45	MD:170 TD:510
LL14Y01	1.1	0.914	MD:770min TD:860min	MD:34min TD:34min	MD:12.3min TD:12.2min	130min	-	18	42	MD:180 TD:530
LL10Y02	2.2	0.910	MD:480min TD:800min	MD:46.5min TD:34.5min	MD:10min TD:9min	180 min	-	3	75	MD:150 TD:350
LL20516	16	0.922	200	6.8	12		-			MAI



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