



InnoPlus Metallocene Linear Low Density Polyethylene (mLLDPE) under the brand of InnoPlus, produced by PTT Global Chemical Public Company Limited (GC). Total capacity for 2 production lines of LLDPE/mLLDPE is 800,000 MTA.

InnoPlus mLLDPE is produced by low pressure polymerization, using Gas Phase of Unipol process under the license of Univation who is leading global technology licensor of proven metallocene PE technology.

These unconventional mLLDPE offers a superior puncture & dart impact resistance, good sealability and excellent optical property. This kind of product can be used for cast & blown film application.



Properties	Test Method (ASTM)	Unit	Metalocene Film								
			LL7810A ⁽¹⁾	LL7810D ⁽¹⁾	LL7810D2 ⁽¹⁾	LL7820A ⁽¹⁾	LL7820D ⁽¹⁾	LL7835A ⁽¹⁾	LL7903A ⁽¹⁾	LL7905A ⁽¹⁾	LL7910A ⁽¹⁾
MFR (190 °C, 2.16 kg)	D1238	g/10 min	1	1	1	2	2	3.5	0.3	0.5	1
Density	D792	g/cm ³	0.918	0.920	0.922	0.918	0.920	0.920	0.927	0.920	0.918
Film Properties											
Tensile Strength at Break (MD)	D882	MPa	50	54	50	45	43	45	40	45	60
Tensile Strength at Break (TD)	D882	MPa	50	54	50	50	45	40	44	45	53
Elongation at Break (MD)	D882	%	700	600	610	675	650	850	500	500	490
Elongation at Break (TD)	D882	%	800	710	650	700	670	900	700	650	675
1% Secant Modulus (MD)	D882	MPa	200	230	250	230	265	230	310	230	191
1% Secant Modulus (TD)	D882	MPa	230	290	290	290	295	250	370	270	224
Dart Impact Strength	D1709	g	>423	>423	>423	>423	>423	140	140	270	206
Tear Strength (MD)	D1922	g	300	300	300	300	300	300	90	150	250
Tear Strength (TD)	D1922	g	400	400	400	450	450	400	600	450	450
Vicat Softening Point	D1525	°C	106	107	107	105	105	105	114	106	106
Gloss (45°)	D2457	-	35	49	40	45	50	27	55	50	62
Haze	D1003	%	13	15	20	13	15	19	20	15	8
Special Feature			-	Medium Slip & Antiblock	High Slip & Antiblock	-	Medium Slip & Antiblock	-	-	-	-
Application			Heavy duty films, Liners, Lamination films, Food packaging, Multi-layer packaging films and freezer packaging films			Stretch films, Cast films, Liners, Lamination films, Food packaging, Multi-layer packaging films and freezer packaging films		Stretch films, Cast films, Food packaging and Multi-layer packaging films	Shrink film, Heavy duty films, Stand-up pouches, and freezer packaging films	Freezer packaging films, Heavy duty films, Agricultural film and multi-layer packaging films	Stretch films, Shrink film, Liners, Food packaging, Multi-layer packaging films, and freezer packaging films

Note:
(1) Film properties obtained from 25 microns film which was blown film extruded at blow up ratio 2.5.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose. All above values are typical values, not to be construed as specification.



mLLDPE