



# LL7810D

## Metallocene Linear Low Density Polyethylene Resin

**Special Characteristics** : InnoPlus LL7810D resin is a metallocene polyethylene with hexene comonomers, with high content of slip and antiblock. This grade is a high performance grade which offer an outstanding mechanical properties and down-gauging. Films extruded from InnoPlus LL7810D have an excellent tensile strength properties. It is suitable for both blown film and cast film processing.

**Typical Applications** : InnoPlus LL7810D is recommended for producing heavy duty films, lines, lamination films, food packaging, multi-layer packaging film and freezer packaging films.

Typical Properties :

Properties	LL7810D	Unit	Test Method
Physical Properties			
Melt Index (190 °C, 2.16 kg)	1.0	g/10 min	ASTM D1238
Density	0.920	g/cm <sup>3</sup>	ASTM D792
Melting Point	120	°C	ASTM D3418
Vicat Softening Point	107	°C	ASTM D1525
<u>Film Properties*</u>	0		
Tensile Strength at Break (MD/TD)	54 / 54	MPa	ASTM D882
Elongation at Break (MD/TD)	600 / 710	%	ASTM D882
Tensile Modulus, 1% Secant (MD/TD)	230 / 290	MPa	ASTM D882
Dart Impact Strength	> 423	g	ASTM D1709
Tear Strength (MD/TD)	300 / 400	g	ASTM D1922
Haze	15	%	ASTM D1003
Gloss (45°)	49		ASTM D2457

\* Film made on blown film line at blow up ratio 2.5. Gloss (45°) obtained from 40 microns film while other film properties obtained from

#### 25 microns film. Processing Condition :

The recommended temperature setting is in the range of 160 - 180 °C for extruder and 170 - 190 °C for die zone.

## FDA Statement :

mLLDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 (c) (2.1) and (2.2) regulation for polyethylene used in articles that contact food suitable for articles used for packaging or holding food during cooking.

### Disclaimer :

This Applications specified herein is for reference only and not suitable for using in the manufacturing of any products in medical and pharmaceutical sectors.

• Determination of suitability of the product for the use and purpose shall be the customer's responsibility. Customer is obligated to inspect and test the product for such suitability. Customer is responsible for appropriate, safe, legal use processing and handling of the product.

• To our best knowledge, information contained herein is true and accurate as of the date of its publication. However, we make no representations or warranties with respect to accuracy, reliability and completeness of the information contained herein for any purpose.

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Note : Properties reported here are typical values of the product, not to be considered as specifications. PTT Global Chemical makes no representations as to the accuracy or completeness of the information contained herein.

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