

# 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.

**Additives :** Slip 500 ppm and Antiblock 1500 ppm

**Typical Properties :**

Properties	LL7810D	Unit	Test Method
<b>Physical Properties (Based on pellets and press-molded sheet)</b>			
Melt Flow Rate (190 °C, 2.16 kg)	1.0	g/10 min	ASTM D1238
Density	0.920	g/cm <sup>3</sup>	ASTM D792
Melting Temperature	120	°C	ASTM D3418
Vicat softening point	107	°C	ASTM D1525

## Film Properties\* (Based on blown film)

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.

### Recommendation :

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

### FDA Statement :

Food and Drug Administration US FDA 21 CFR 177.1520 and Commission Regulation (EU) 10/2011. More compliance regulations and standards that related to the product shall be exhibited in Product Regulatory Certificate (PRC) document.

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Note : Properties reported here are typical values of the product, not to be considered as specifications.

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