

# LL7910A

Metallocene Linear Low Density Polyethylene Resin

**Special Characteristics :** InnoPlus LL7910A resin is a metallocene polyethylene with hexene comonomers, without slip and antiblock. This grade is an easy processing grade which offers an outstanding balance between processing and film properties. Films extruded from InnoPlus LL7910A have high tensile and dart Impact strength properties. It is suitable for both blown film and cast film processing.

**Typical Applications :** InnoPlus LL7910A is recommended for producing the heavy duty films, stretch films, shrink films, lamination films, liners, food packaging, multi-layer packaging films and freezer packaging films.

**Additives :** No Slip and No Antiblock

**Typical Properties :**

Properties	LL7910A	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	0.918	g/cm <sup>3</sup>	ASTM D792
Melting Temperature	114	°C	ASTM D3418
Vicat softening point	106	°C	ASTM D1525

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

Tensile Strength at Break (MD/TD)	60 / 53	MPa	ASTM D882
Elongation at Break (MD/TD)	490 / 675	%	ASTM D882
Tensile Modulus, 1% Secant (MD/TD)	191 / 224	MPa	ASTM D882
Dart Impact Strength	206	g	ASTM D1709
Tear Strength (MD/TD)	250 / 450	g	ASTM D1922
Haze	8	%	ASTM D1003
Gloss (45°)	62	-	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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