

LL7810A / LL7810D

Metallocene Polyethylene Resin

Special Characteristics: InnoPlus LL7810A and LL7810D are metallocene polyethylene (mPE) with hexene comonomers. These grades provide excellent mechanical properties and superior down-gauging performance. Films produced from InnoPlus LL7810A and LL7810D exhibit high tensile strength and dart impact resistance. Both grades are suitable for blown film and cast film processing applications.

Typical Applications: InnoPlus LL7810A and LL7810D are recommended for producing heavy duty films, stretch films, lamination films, liners, food packaging, multi-layer packaging film and freezer packaging films.

Additives: LL7810A No Slip and No Antiblock

LL7810D Slip 500 ppm Antiblock 1500 ppm

Typical Properties:

Properties	LL7810A / LL7810D	Unit	Test Method
Physical Properties* (Based on pellets and press-molded sheet)			
Melt Flow Rate (190 °C, 2.16 kg)	1.0	g/10 min	ASTM D1238
Density	0.918	g/cm ³	ASTM D792
Melting Temperature	122	°C	ASTM D3418
Vicat Softening Point	106	°C	ASTM D1525
Film Properties* (Based on blown film)			
Tensile Strength at Break (MD/TD)	50 / 50	MPa	ASTM D882
Elongation at Break (MD/TD)	660 / 660	%	ASTM D882
Tensile Modulus, 1% Secant (MD/TD)	240 / 250	MPa	ASTM D882
Dart Impact Strength	1330	g	ASTM D1709
Tear Strength (MD/TD)	280 / 330	g	ASTM D1922
Haze	24	%	ASTM D1003
Gloss (45°)	26	-	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.

The physical and film properties are based on polymer without slip and antiblock additives.

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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