

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
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	0.920	g/cm ³	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.

Disclaimer: To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however, we do not assume any liability what so ever for the accuracy and completeness of such information. We make no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products. No liability can be accepted in respect of the use of our products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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

GC makes no representations as to the accuracy or completeness of the information contained herein.