

# LD1840D

Low Density Polyethylene Resin

**Special Characteristics :** InnoPlus LD1840D is produced by high pressure tubular process, a technology licensed by LyondellBasell. This grade provides high melt strength leading to excellent bubble stability during blown-film process. Film from InnoPlus LD1840D offers high tear strength, good impact strength, good tensile strength and elongation.

**Typical Applications :** InnoPlus LD1840D is recommended for producing the agricultural films and general purpose film.

**Additives :** No Slip and No Antiblock

**Typical Properties :**

Properties	LD1840D	Unit	Test Method
<b>Physical Properties (Based on pellets and press-molded sheet)</b>			
Melt Flow Rate (190 °C, 2.16 kg)	0.22	g/10 min	ISO 1133
Density	0.920	g/cm <sup>3</sup>	ISO 1183
Melting Temperature	111	°C	ISO 11357
Vicat softening point	93	°C	ASTM D1525
<b>Film Properties* (Based on blown film)</b>			
Max. Tensile Strength (MD/TD)	25 / 25	MPa	ISO 527
Ultimate Elongation (MD/TD)	500 / 750	%	ISO 527
Dart Drop Impact	250	g	ASTM D1709
Tear Resistance (MD/TD)	280 / 350	gf	ASTM D1922
Haze	8	%	ASTM D1003
Gloss (20°)	37	-	ASTM D2457

\* film properties obtained from 70 microns film which was blown film extruded at blow up ratio 2.0

**Recommendation:**

The recommended temperature setting is in the range of 170 - 220 °C

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

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