

# LL6420A

## Linear Low Density Polyethylene Resin

**Special Characteristics :** InnoPlus LL6420A resin is a linear low density polyethylene with butene comonomers, without slip and antiblock designed for extrusion process for wire and cable applications.

**Typical Applications :** Low voltage power cable insulation for silane crosslink process, Low Voltage thermoplastic jacketing and telecommunication jacketing.

### Typical Properties :

Properties	LL6420A	Unit	Test Method
<b><u>Physical Properties</u></b>			
Melt Index (190 °C, 2.16 kg)	2.0	g/10 min	ASTM D1238
Density	0.918	g/cm <sup>3</sup>	ASTM D792
Melting Point	120	°C	ASTM D3418
Vicat Softening Point	97	°C	ASTM D1525
<b><u>Mechanical Properties (Based on compression specimens)</u></b>			
Tensile Strength at Yield	10	MPa	ASTM D638
Tensile Strength at Break	25	MPa	ASTM D638
Elongation at Break	900	%	ASTM D638
Secant Modulus	200	MPa	ASTM D638
Durometer Hardness	47	Shore D	ASTM D2240
<b><u>Electrical Properties</u></b>			
Volume Resistivity (500V)	8.0E+16	ohm.cm	ASTM D257
Dielectric Strength (500V/sec)	> 50	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	2.2	-	ASTM D150
Dissipation Factor (60 Hz)	0.001	-	ASTM D150

### Processing Condition :

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

### FDA Statement :

LLDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 (c) (2.1) and (2.2) regulation for polyethylene used in articles that contact food suitable for articles used for packaging or holding food during cooking.

### Disclaimer :

This Applications specified herein is for reference only and not suitable for using in the manufacturing of any products in medical and pharmaceutical sectors.

- Determination of suitability of the product for the use and purpose shall be the customer's responsibility. Customer is obligated to inspect and test the product for such suitability. Customer is responsible for appropriate, safe, legal use processing and handling of the product.
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**Note :** Properties reported here are typical values of the product, not to be considered as specifications.

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