

# LL5420A

## Linear Low Density Polyethylene Resin

**Special Characteristics** : InnoPlus LL5420A resin is a linear low density polyethylene which is designed for cap and closure application. This grade has high melt flow rate for excellent processability with short cycle time and high productivity, offers an outstanding impact resistance and hinge properties with organoleptic testing passed.

**Typical Applications** : InnoPlus LL5420A is recommended for producing cap and closure applications; edible oil cap, seasoning source cap, water gallon cap and lid.

### Typical Properties :

Properties	LL5420A	Unit	Test Method
<i><u>Physical Properties</u></i>			
Melt Index (190 °C , 2.16 kg)	20	g/10 min	ASTM D1238
Density	0.924	g/cm <sup>3</sup>	ASTM D792
Melting Point	123	°C	ASTM D3418
Vicat Softening Point	92	°C	ASTM D1525
<i><u>Mechanical Properties</u></i>			
Tensile Strength at Yield	15	MPa	ASTM D638
Tensile Strength at Break	10	MPa	ASTM D638
Elongation at Break	700	%	ASTM D638
Durometer Hardness	53	Shore D	ASTM D2240
Flexural Modulus	370	MPa	ASTM D790
1% Secant Modulus	310	MPa	ASTM D638
Notched Izod Impact Strength	58	kg.cm/cm	ASTM D256
ESCR, F50 (Condition B, 10 % Igepal)	4	hrs	ASTM D1693

### Processing Condition :

The recommended temperature setting is in the range of 170 - 190 °C for extruder and 180 - 200 °C for Nozzle.

### 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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