



# **HD5000S**

# High Density Polyethylene Resin

**Special Characteristics**: InnoPlus HD5000S is high density polyethylene resin which offers good balance of processability, high production rates, excellent tenacity and good appearance. InnoPlus HD5000S is recommended for monofilament or yarn applications

Typical Applications: Rope, Fishing net, Agricultural net, Tarpaulin, Woven sack

# **Typical Properties:**

Properties	HD5000S	Unit	Test Method
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	0.8	g/10 min	ASTM D1238
Density	0.954	g/cm <sup>3</sup>	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	125	°C	ASTM D1525
Mechanical Properties (Based on compression specimens)			
Tensile Strength @ Yield	290	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength @ Break	390	kg/cm <sup>2</sup>	ASTM D638
Elongation @ Break	>1000	%	ASTM D638
Flexural Modulus	12000	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	17 (P)*	kg.cm/cm	ASTM D256

\* P = Partial Break

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### **Processing Condition:**

Extruder temperature: 200 - 260 °C Stretching temperature: 97 - 100 °C

Die temperature : 250 - 260 °C Stretching ratio : 8 - 10

## FDA Statement:

HDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 regulation for polyethylene used in articles that contact food except 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.

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

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