

## 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
<b>Physical Properties</b>			
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	125	°C	ASTM D1525
Melting Temperature	134	°C	ASTM D3418

<b>Mechanical Properties (compression specimens)</b>			
Tensile Strength at Yield	290	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength at Break	390	kg/cm <sup>2</sup>	ASTM D638
Elongation at Break	>1,000	%	ASTM D638
Flexural Modulus	12,000	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	17 (P) *	kg.cm/cm	ASTM D256

\* P = Partial Break

**Recommendation :**

Extruder temperature : 200 - 260 °C

Die temperature : 250 - 260 °C

Stretching temperature : 97 - 100 °C

Stretching ratio : 8 - 10

**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.

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

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