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^3	ASTM D1505
Vicat Softening Point	125	°C	ASTM D1525
Melting Temperature	134	°C	ASTM D3418
Mechanical Properties (compression specimens)			
Tensile Strength at Yield	290	kg/cm^2	ASTM D638
Tensile Strength at Break	390	kg/cm^2	ASTM D638
Elongation at Break	>1,000	%	ASTM D638
Flexural Modulus	12,000	kg/cm^2	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 °C

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.
GC makes no representations as to the accuracy or completeness of the information contained herein.

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