HD5050S

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD5050S is high density polyethylene resin with narrow molecular weight distribution. It offers excellent processability with enhancing stretchability and excellent tenacity which advantage for high speed machine.

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

Typical Properties :

Properties	HD5050S	Unit	Test Method
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	1.0	g/10 min	ASTM D1238
Density	0.956	g/cm^3	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	128	°C	ASTM D1525
Mechanical Properties (Based on compression specimens)			
Tensile Strength @ Yield	290	kg/cm^2	ASTM D638
Tensile Strength @ Break	420	kg/cm^2	ASTM D638
Elongation @ Break	>1000	%	ASTM D638
Flexural Modulus	12000	kg/cm^2	ASTM D790
Notched Izod Impact Strength	55(P)*	kg.cm/cm	ASTM D256

* P = Partial Break

Processing Condition :

Extruder temperature : 200 - 260 °C
Die temperature : 250 - 260 °C
Stretching temperature : 97 - 100 °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.

- 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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