



## HD8100M

High Density Polyethylene Resin

### Special Characteristics

InnoPlus HD8100M is a natural color-high density polyethylene pipe grade which is certified as a MRS 10.0 (PE100). InnoPlus HD8100M is produced from bimodal polymerization, Mitsui technology which provides excellent mechanical strength, high thermal stability and chemical resistance properties. This grade can mix with color masterbatch and apply for color pipe.

Typical Application: Drinking water pipes, Industrial pipes, Sewer pipes and conduit pipe for wire & cable protection.

## Typical Properties:

Typical Value	Unit	Test Method
0.25	g/10 min	ISO 1133
0.952	g/cm <sup>3</sup>	ISO 1183
124	°C	ASTM D1525
133	°C	ASTM D3418
25	MPa	ISO 527
33	MPa	ISO 527
750	%	ISO 527
7500	kg/cm <sup>2</sup>	ASTM D747
10000	kg/cm <sup>2</sup>	ASTM D790
48 (NB)*	kg.cm/cm	ASTM D256
64	Shore D	ASTM D2240
>1000	Hours	ASTM D1693
		1/
>40	min.	ISO 11357-6
10.0 (PE100)	MPa	ISO12162/ ISO 9080
		3
		Y
	0.25 0.952 124 133 25 33 750 7500 10000 48 (NB)* 64 >1000	0.25 g/10 min 0.952 g/cm³ 124 °C 133 °C  25 MPa 33 MPa 750 % 7500 kg/cm² 10000 kg/cm² 48 (NB)* kg.cm/cm 64 Shore D >1000 Hours

\* NB = Non Break





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Revised Date: Oct, 2021

### Recommendation:

Extruder temperature : 180 - 200 °C Die temperature : 190 - 220 °C

#### FDA Statement:

HDPE 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 drinking water pipes.

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

PTT Global Chemical makes no representations as to the accuracy or completeness of the information contained herein.

#### 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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