

HD9100B

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD9100B is extra high molecular weight high density polyethylene blow molding grade which is recommended for 20-220 litre drums. It has excellent processability and exhibits very high impact strength and superior environment stress crack resistance.

Typical Applications : Hazardous chemical drums, Agricultural chemical drums.

Typical Properties :

Properties	HD9100B	Unit	Test Method
<i><u>Physical Properties</u></i>			
Melt Flow Rate (2.16 kg/190°C)	0.01	g/10 min	ASTM D1238
Melt Flow Rate (21.6 kg/190°C)	2.5	g/10 min	ASTM D1238
Density	0.952	g/cm ³	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	126	°C	ASTM D1525
Melting Point	134	°C	ASTM D3418
<i><u>Mechanical Properties (Based on compression specimens)</u></i>			
Tensile Strength @ Yield	250	kg/cm ²	ASTM D638
Tensile Strength @ Break	400	kg/cm ²	ASTM D638
Elongation @ Break	720	%	ASTM D638
Flexural Modulus	10000	kg/cm ²	ASTM D790
Notched Izod Impact Strength	85 (NB)*	kg.cm/cm	ASTM D256
Durometer Hardness	62	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 25 % Igepal)	>1000	hrs	ASTM D1693

* NB = Non Break

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.

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Processing Condition :

Extruder temperature : 190 - 220 °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 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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