

HD5200B

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD5200B is high density polyethylene blow molding grade which is characterized by high rigidity, good appearance and also have special feature of excellent processability. It is suitable for high productivity or high speed blow molding machine.

Typical Applications : Food packaging, Milk bottles, Drinking water bottles

Typical Properties :

Properties	HD5200B	Unit	Test Method
<i><u>Physical Properties</u></i>			
Melt Flow Rate (190 °C, 2.16 kg)	0.45	g/10 min	ASTM D1238
Density	0.966	g/cm ³	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	127	°C	ASTM D1525
Melting Point	133	°C	ASTM D3418
<i><u>Mechanical Properties (Based on compression specimens)</u></i>			
Tensile Strength @ Yield	320	kg/cm ²	ASTM D638
Tensile Strength @ Break	350	kg/cm ²	ASTM D638
Elongation @ Break	>1000	%	ASTM D638
Flexural Modulus	17500	kg/cm ²	ASTM D790
Notched Izod Impact Strength	15 (P)*	kg.cm/cm	ASTM D256
Durometer Hardness	66	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 25 % Igepal)	30	hrs	ASTM D1693

* P = Partial 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 : 160 - 180 °C

Die temperature : 180 - 200 °C

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.

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