

HD4200B

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD4200B 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	HD4200B	Unit	Test Method
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	0.67	g/10 min	ASTM D1238
Density	0.966	g/cm ³	ASTM D1505
Vicat softening point	125	°C	ASTM D1525
Melting Temperature	135	°C	ASTM D3418
Mechanical Properties (Based on compression specimens)			
Tensile Strength at Yield	310	kg/cm ²	ASTM D638
Tensile Strength at Break	230	kg/cm ²	ASTM D638
Elongation at Break	>1,000	%	ASTM D638
Flexural Modulus	18,000	kg/cm ²	ASTM D790
Notched Izod Impact Strength	13 (P) *	kg.cm/cm	ASTM D256
Durometer Hardness	65	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 25 % Igepal)	25	hrs	ASTM D1693

* P = Partial Break

Recommendation :

Extrusion temperature : 160 - 180 °C

Die Temperature : 180 - 200 °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.