

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
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	0.01	g/10 min	ASTM D1238
Melt Flow Rate (190 °C, 21.6 kg)	2.5	g/10 min	ASTM D1238
Density	0.952	g/cm ³	ASTM D1505
Vicat softening point	126	°C	ASTM D1525
Melting Temperature	134	°C	ASTM D3418
Mechanical Properties (Based on compression specimens)			
Tensile Strength at Yield	250	kg/cm ²	ASTM D638
Tensile Strength at Break	400	kg/cm ²	ASTM D638
Elongation at Break	720	%	ASTM D638
Flexural Modulus	10,000	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)	>1,000	hrs	ASTM D1693

* NB = Non Break

Recommendation :

Extruder temperature : 195 - 220 °C

Die temperature : 200 - 220 °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.

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

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