

HD7500B

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD7500B is extra high molecular weight high density polyethylene blow molding grade which is recommended for 20-120 litre drums. It has excellent processability and exhibits very high impact strength, stiffness and extremely environment stress crack resistance.

Typical Applications : Hazardous chemical drums, Agricultural chemical drums.

Typical Properties :

Properties	HD7500B	Unit	Test Method
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	0.05	g/10 min	ASTM D1238
Melt Flow Rate (190 °C, 21.6 kg)	8.0	g/10 min	ASTM D1238
Density	0.954	g/cm ³	ASTM D1505
Vicat softening point	124	°C	ASTM D1525
Melting Temperature	134	°C	ASTM D3418
Mechanical Properties (Based on compression specimens)			
Tensile Strength at Yield	260	kg/cm ²	ASTM D638
Tensile Strength at Break	380	kg/cm ²	ASTM D638
Elongation at Break	800	%	ASTM D638
Stiffness	10,000	kg/cm ²	ASTM D747
Flexural Modulus	12,000	kg/cm ²	ASTM D790
Notched Izod Impact Strength	29 (NB)*	kg.cm/cm	ASTM D256
Durometer Hardness	63	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 25 % Igepal)	>1000	hrs	ASTM D1693

* NB = Non Break

Recommendation :

Extruder temperature : 170 - 200 °C

Die temperature : 175 - 200 °C

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

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